Beginning and Intermediate Algebra 5th Edition Elayn Martin-Gay Test Bank

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MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. Identify the numerical coefficient of the term.

| 1) -10x A) 1 | B) 10 | C) -10 | D) x | 1) |
|---|--------------------------|------------------|------------------|-----|
| 2) 3y | | | | 2) |
| A) 1 | B) y | C) 3 | D) -3 | |
| 3) - a A) 1 | B) 0 | C) -1 | D) a | 3) |
| 4) -6^{x^2} | 2 | | | 4) |
| A) -6 | B) x ² | C) 6 | D) 2 | |
| 5) $\frac{5}{8}$ | | | | 5) |
| A) -5 | B) <u>5</u> 8 | C) $\frac{5}{8}$ | D) z | |
| 6) $\frac{3y}{7}$ | | | | 6) |
| 6) $\frac{3y}{7}$ A) $\frac{3}{7}$ | B) -3 | C) 3 | D) $\frac{3}{7}$ | |
| Indicate whether the list of t | erms are like or unlike. | | | |
| 7) 4z, -10z A) like | | B) unlike | | 7) |
| ⁸⁾ -3xy, 2 ^{x²} y | | | | 8) |
| A) like | | B) unlike | | |
| 9) $_{-6}z^2$, 8z | | P) unlike | | 9) |
| A) like | | B) unlike | | 10) |
| 10) _{13x} y ² _{z, -4x} y ² A) like | | B) unlike | | 10) |

| 11) a ² _{b, 8b} a ² | |
|--|-----------|
| A) like | B) unlike |

Simplify the expression by combining any like terms.

| 12) 2x + 7x A) 9x | B) -5x | C) 14x | D) 9 + x | 12) |
|---|--------|--------|----------|-----|
| 13) 6b - 2b A) ₄ b ² | B) 4b | C) -8b | D) -4b | 13) |
| 14) 2y + y - 7y | | | | 14) |

11) _____

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| | A) -4y | B) -5y + y | C) -6y | D) -5y | |
|-------|---|---------------------------------|-------------------------------|-------------------------|------------|
| | 15) $3z - 12z - z$ | R) Oz z | C) 87 | D) 107 | 15) |
| | A) -9z | B) -9z - z | C) -8z | D) -10z | |
| | 16) $5a - 2a + 3$ | | | \mathbf{D} | 16) |
| | A) 6a | B) 3a + 3 | C) - 3a + 3 | D) 7a + 3 | |
| | 17) 12x - x - 4x - x A) 6x | B) x ² + 8x | C) 8x | D) _x ² + 8x | 17) |
| | | - | | - | |
| | 18) 8x - 4 + 2x + 1 A) 7 | B) 7x | C) 6x - 3 | D) 10x - 3 | 18) |
| | A) / | 0)77 | C) 0X - 5 | D) 10x - 5 | |
| | 19) 8a - 3a - a - 15 | | 0.4.45 | | 19) |
| | A) 5a - 16 | B) 5a - a - 15 | C) 4a - 15 | D) 5a - 15 | |
| | 20) 6y + 2 - 4 y + 7 | | | | 20) |
| | A) 10y + 9 | B) 2y + 9 | C) 2y - 5 | D) 11y | |
| | 21) 11x - 8 + 4x + x + 7 | | | | 21) |
| | A) 14x - 1 | B) 16x - 1 | C) 15x - 1 | D) 15x + 1 | , |
| | 22) - 6m + 6 - 3 + 2 + m - 5 | | | | 22) |
| | A) - 7m | B) - 5m | C) - 5m - 1 | D) - 7m + 1 | <i>22)</i> |
| | | | | | 22) |
| | 23) 0.4c + 2 + 5c + 2.7 A) 2c + 5.4 | | B) 10.1 | | 23) |
| | C) $0.4c + 5c + 2 + 2.7$ | | D) $5.4c + 4.7$ | | |
| | | | | | 24) |
| | 24) 5.5w - 1.4 - 3.1w + 6 + 2.8w A) 5.2w + 7.4 | B) 5.2w - 4.6 | C) 11.4w + 4.6 | D) 5.2w + 4.6 | 24) |
| | | | , | , | |
| | 25) $9x^2 + 5x + 2 + 3x + 8 + 5x^2$ | | 2 | 2 | 25) |
| | A) $14^{x^4} + 8^{x^2} +$ | B) ₃₂ x ³ | C) $14^{x^2} + 8x + 10^{x^2}$ | D) $7^{x^2} + 12x + 13$ | |
| | 10 | | | | |
| Simpl | ify the expression. First use th | ne distributive property | to remove any parenthese | 25. | |
| | 26) $9(y+6)$ | | 0 1 | | 26) |
| | A) y + 54 | B) 9y + 6 | C) 9y + 54 | D) 9y + 15 | |
| | 27) 5(x - 2) | | | | 27) |
| | A) 5x - 10 | B) 5x - 2 | C) 5x - 7 | D) 5x + 10 | |
| | 28) - 6(r + 8) | | | | 28) |
| | A) r - 48 | B) - 6r - 48 | C) - 6r - 8 | D) - 6r + 48 | , |
| | 29) -10(z - 3) | | | | 29) |
| | A) $-10(z - 3)$ | B) -10z + 30 | C) 10z + 30 | D) -10z - 30 | <i></i> |
| | | | | | |
| | 30) 7(4d + 8) | | | | 30) |

| A) 11d + 15 | B) 84d | C) 28d + 8 | D) 28d + 56 | |
|--|------------------------|----------------------------|-----------------------------|-----|
| 31) 8(2n - 4) A) 16n - 32 | B) 10n - 12 | C) 16n + 32 | D) 16n - 4 | 31) |
| 32) - 6(8x + 5) A) 2x - 1 | B) - 78x | C) - 48x - 30 | D) - 48x + 5 | 32) |
| 33) - 2(7y - 6) A) - 14y + 12 | B) - 14y - 12 | C) - 14y - 6 | D) 5y - 4 | 33) |
| 34) - 3(10r + 5) + 10(2r + 8) A) -10r + 65 | B) - 45r | C) -10r + 5 | D) 7r + 2 | 34) |
| 35) 4(3x + 6 + y) A) 12x + 6 + y | B) 12x + 24 + 4y | C) 12x + 24 + y | D) 12x + 6 + 4y | 35) |
| 36) 9(6x + 8y + 3) A) 54x + 8y + 3 | B) 54x + 72y + 27 | C) 54x + 72y + 3 | D) 54x + 8y + 27 | 36) |
| 37) -(- 7m + 6n - 4) A) - 7m + 6n - 4 | B) 7m - 6n - 4 | C) - 7m + 6n + 4 | D) 7m - 6n + 4 | 37) |
| 38) -(5y - 2z + 8) A) - 5y - 2z + 8 | B) - 5y + 2z + 8 | C) - 5y + 2z - 8 | D) - 5y - 2z - 8 | 38) |
| 39) (12z + 7) - (5z - 4) A) 17z + 11 | B) 7z + 3 | C) 7z - 11 | D) 7z + 11 | 39) |
| 40) 10(y + 4) - 3 A) 10y + 1 | B) 10y + 37 | C) 14y - 3 | D) 10y + 10 | 40) |
| 41) 5x + 4(x + 4) A) 20x + 8 | B) 6x + 16 | C) 9x - 16 | D) 9x + 16 | 41) |
| 42) -4(2x - 9) - 4x + 6 A) -12x + 42 | B) -12x - 30 | C) 12x + 42 | D) 4x + 42 | 42) |
| 43) 6(x - 3) + 8x + 8 A) 14x + 26 | B) 14x - 26 | C) 2x - 10 | D) 14x - 10 | 43) |
| 44) 6m + 4n - 4m + 10(m - 7n) A) -8m + 74n | B) 12m - 66n | C) 20m + 74n | D) 12m - 3n | 44) |
| 45) $\frac{2}{7}(z-14) - \frac{1}{14}z$ | | | | 45) |
| $\begin{array}{c} A \end{array} \underbrace{ \begin{array}{c} 5 \\ 14 \\ 2 \end{array}}_{z-4} \end{array}$ | B) $\frac{5}{14}z + 4$ | C) $\frac{5}{14}$ z + 4 | D) $\frac{3}{14}$ z + 14 | |
| 46) $\frac{1}{2}(6x+1) - \frac{3}{4}(4x-8)$ | | | | 46) |

| | A) 13 | B) - 11 | C) $\frac{13}{2}$ | D) $\frac{11}{2}$ | |
|-------|---|---|---------------------------------------|--|--------------------------|
| | 47) - 7.7(3r + 2) + 5.7(5r + 9) A) 5.4r + 35.9 | B) 5.4r + 2 | C) - 38.5r | D) -4.7r - 5.7 | 47) |
| Write | e the following as an algebraic | expression. Simplify if p | possible. | | |
| | 48) Add 6x - 4 to 4x - 14. A) 2x - 18 | B) 10x - 10 | C) 10x + 18 | D) 10x - 18 | 48) |
| | 49) Add 9x + 7 to 2x - 4. A) 11x + 11 | B) 11x - 11 | C) 11x + 3 | D) 7x + 3 | 49) |
| | 50) Subtract 6x + 4 from 3x - 3. A) 3x + 7 | B) 9x + 1 | C) -3x - 1 | D) -3x - 7 | 50) |
| | 51) Subtract 4x - 8 from 6x + 7 A) 2x - 15 | B) 2x + 15 | C) 10x - 1 | D) -2x - 15 | 51) |
| Write | e the following phrase as an alg 52) Two times a number, incre | | implify if possible. Let x | represent the unknow | wn number. 52) |
| | A) 2x + 12 | B) 2x - 12 | C) 2 + 12x | D) 2x + 24 | |
| | 53) The difference of thirteen a A) $\frac{x}{2}$ 13 - | and a number, divided by B) <u>x - 13</u> 2 | C) $\frac{x}{2}$ - 13 | D) <u>13 - x</u> 2 | 53) |
| | 54) One-half a number, minus | nine, plus three times th | e number | | 54) |
| | A) $\frac{1}{2}_{x-6}$ | B) $\frac{1}{2}$ x - 9 + 3x | e number C) $\frac{7}{2}$ x - 9 | D) $\frac{7}{2} + \frac{9}{2} = \frac{1}{2}$ | |
| | 55) The sum of four times a nu | | | | 55) |
| | A) 4x + 16 | B) 10x - 4 | C) 10x + 10 | D) 10x + 46 | |
| Write | Write the algebraic expression described. 56) To convert from meters to centimeters, we multiply by 100. For example, the number of | | | | |
| | centimeters in 3 meters is $100 \cdot 3 = 300$. If one piece of string has a length of $x - 3$ meters, and another piece of string has a length of $7x + 6$ centimeters, express their total length in centimeters as an algebraic expression. | | | | |
| | A) (107x - 294) cm | B) $(8x + 3)$ cm | C) (701x + 597) cm | D) (800x + 300) cm | |
| | 57) The value of 8 dimes is 10 2x - 2 nickels, 5x dimes, as cents as an algebraic expre | nd x quarters in his chang | | | 57) |
| | A) (85x - 2) cents | B) $(85x + 10)$ cents | C) (85x - 10) cents | D) (60x - 10) cents | |
| | 58) Given the following quadr | ilateral, express the perir | neter, or total distance are | ound the figure, as | |

58) Given the following quadrilateral, express the perimeter, or total distance around the figure, as an algebraic expression containing the variable x.

| 58) (2x + 1) inche | 25 | | | |
|---|----------------------------|----------------------------|-------------------|-----|
| | (x - 3) | inches | | |
| 5 inches | 7 | | | |
| | | | | |
| | 4x inches | | | |
| A) $(6x + 9)$ in. | B) $(6x + 3)$ in. | C) $(7x + 3)$ in. | D) (7x + 9) in. | |
| Solve the equation. | | | | 50) |
| 59) x - 4 = 15 A) -11 | B) 11 | C) -19 | D) 19 | 59) |
| 60) $18 = r + 3$ | | | | 60) |
| 60) 18 = 1 + 3 A) 15 | B) -21 | C) 21 | D) -15 | 60) |
| 61) t - 1 = 18 | | | | 61) |
| A) -19 | B) 19 | C) 17 | D) -17 | 01) |
| 62) 1 | | | | 62) |
| 62) $\frac{1}{4}$ + f = 5 | | | | |
| A) 19 | B) 1 | C) $\frac{21}{4}$ | D) <u>19</u> 4 | |
| | | т | 4 | |
| 63) $12 + 6y = 7y$ | D\ 10 | () 1 | | 63) |
| A) -12 | B) 12 | C) -1 | D) 6 | |
| 64) $5.9 + x = 20.6$ | P) 26 5 | C) 14 7 | D) 14.2 | 64) |
| A) 26 | B) 26.5 | C) 14.7 | D) 14.2 | |
| 65) 7y = 6y - 4.7 A) 7 | B) 4.7 | C) -17.7 | D) -4.7 | 65) |
| | | | | |
| Solve the equation. Don't forget to $66) 3(y + 5) = 4(y - 6)$ | o first simplify each side | of the equation, if possib | le. | 66) |
| A) 39 | B) 9 | C) -9 | D) -39 | |
| 67) $3(2z - 4) = 5(z + 3)$ | | | | 67) |
| A) 27 | B) -3 | C) 6 | D) 3 | , |
| 68) -6(x - 7) - (-7x + 6) = 5 | | | | 68) |
| A) - 18 | B) - 31 | C) 41 | D) 31 | |
| 69) 10n = 3n + 9 + 6n | | | | 69) |
| A) 9 | B) -9 | C) -90 | D) 90 | |
| 70) - 4k + 2 + 5k = 6 - 20 | | | | 70) |
| A) -28 | B) -16 | C) 16 | D) 28 | |
| 71) - 9c + 5 + 7c = $-3c + 10$ | | _ | | 71) |
| A) 5 | B) 10 | C) -5 | D) -10 | |

| 72) $\frac{3}{4}y + \frac{1}{3} = -\frac{1}{4}y - \frac{3}{8}$ | | | | 72) |
|--|-----------------------------|-------------------|--------------------|-----|
| $\begin{array}{rcl} y + & = - & y - \\ A & \frac{6}{17} \end{array}$ | B) $\frac{17}{24}$ | C) $\frac{1}{24}$ | D) <u>17</u> 24 | |
| 73) 8(3x + 7) = 25x A) -7 | B) 7 | C) 56 | D) -56 | 73) |
| 74) 3n - 2n - 2 = - 2 A) 2 | B) - 4 | C) - 2 | D) 0 | 74) |
| 75) - 8w - 13 + 9w = -8 A) -5 | B) -21 | C) 21 | D) 5 | 75) |
| 76) -22 + 15 = 8x + 3 - 7x A) 40 | B) -10 | C) -40 | D) 10 | 76) |
| 77) -8.6 + 2x - 6.3 + 5x - 2.3 A) -24.4 | = 5.5 + 8x + 1.7 B) 24.4 | C) 10 | D) -10 | 77) |
| Solve the equation. 78) -6x = 30 A) -5 | B) 1 | C) 36 | D) -36 | 78) |
| 79) -4n = -20 A) 2 | B) -16 | C) 16 | D) 5 | 79) |
| 80) -5x = 0 A) 5 | B) 1 | C) 0 | D) -5 | 80) |
| 81) -z = 4 A) -1 | B) 0 | C) 4 | D) -4 | 81) |
| 82) $\frac{1}{7}$ y = -6 A) 0 | B) 1 | C) -1 | D) -42 | 82) |
| $\begin{array}{c} 83) \frac{1}{21} \\ a = 0 \\ 4 \\ 0 \end{array}$ | | | | 83) |
| 11)0 | B) 1 | C) 21 | D) -21 | 84) |
| 84) $-\frac{3}{8}k = \frac{3}{2}$ A) -3 | B) 4 | C) -4 | D) 5 | , |
| 85) $\frac{6}{7} = \frac{1}{6}$ | | | | 85) |
| A) $\frac{36}{7}$ | B) $\frac{7}{36}$ | C) $\frac{7}{6}$ | D) $\frac{7}{36}$ | |

| 86) $\frac{n}{4}$ 2 | | | | 86) |
|---|--------------------|-------------------|------------------|-----|
| = 2 A) 6 | B) 8 | C) 5 | D) 0 | |
| $(87) \frac{v}{-2} = 10$ | | | | 87) |
| A) 12 | B) -20 | C) 20 | D) -12 | |
| 88) -35 = -7c A) 2 | B) -28 | C) 28 | D) 5 | 88) |
| 89) $\frac{x}{8} + 6 = 14$ | | | | 89) |
| A) 16 | B) 64 | C) 160 | D) 162 | |
| 90) $-2x - 2x + 7 = -9x$ A) $\frac{7}{5}$ | B) <u>7</u> 5 | C) $\frac{7}{13}$ | D) $\frac{5}{7}$ | 90) |
| 91) 8r + 10 = 66 A) 48 | B) 52 | C) 7 | D) 1 | 91) |
| 92) 4n - 9 = 11 A) 5 | B) 11 | C) 20 | D) 16 | 92) |
| 93) 24 = -5x - 6 A) 39 | B) 35 | C) 1 | D) -6 | 93) |
| 94) $\frac{1}{5}a - \frac{1}{5} = -6$ A) 29 | B) -29 | C) 31 | D) -31 | 94) |
| 95) $\frac{1}{4}$ f - 5 = 1 | | | | 95) |
| A) 16 | B) -16 | C) 24 | D) -24 | |
| 96) 6x - 14x = -5 - 19 A) 8 | B) -8 | C) 3 | D) -3 | 96) |
| 97) 7x - x = 33 - 3 A) 5 | B) 6 | C) -5 | D) -6 | 97) |
| 98) $8x - 9 + 4x + 8 = 6$ A) $\frac{7}{12}$ | B) $\frac{11}{12}$ | C) $\frac{7}{12}$ | D) $\frac{7}{4}$ | 98) |
| 99) $6z + 6 - 4(z + 1) = -(3z - 1)$ A) $\frac{1}{5}$ | B) $\frac{3}{5}$ | C) $\frac{1}{2}$ | D) $\frac{1}{6}$ | 99) |

| 100) $-3(2x + 2) - 1 = -5(x + 1)$ A) $\frac{1}{4}$ | + 3x B) 0 | C) $\frac{1}{2}$ | D) $\frac{3}{2}$ | 100) |
|--|---|--------------------------------------|----------------------------------|------|
| 101) 0.7x - 0.9x - 4 = 6 A) 50 | B) -50 | C) 46 | D) -46 | 101) |
| 102) -6.1z + 1.1 = -12.4 - 1.6z A) 2.5 | B) 3 | C) 2.2 | D) -18 | 102) |
| 103) $\frac{1}{5}(x+6) = \frac{1}{7}(x+8)$ A) -1 | | | | 103) |
| A) -1 | B) -12 | C) {3} | D) 1 | |
| 104) $\frac{1}{7}(x+14) + \frac{1}{9}(x+9)$ A) $\frac{189}{65}$ | = x - 4 | | | 104) |
| A) <u>189</u> <u>65</u> | B) $\frac{441}{65}$ | C) <u>63</u> 13 | D) $\frac{63}{65}$ | |
| Write the algebraic expression de | escribed. Simplify if pose | sible. | | |
| 105) Two numbers have a su A) 32 - 2q | m of 32. If one number is B) q - 32 | q, express the other nu C) 32 - q | mber in terms of q. D) q + 32 | 105) |
| 106) A 30-centimeter piece o other length as an algeb | | es. If one piece is z centi | imeters long, express the | 106) |
| A) $(z + 30)$ cm | B) (30 - z) cm | C) (z - 30) cm | D) (30 - 2z) cm | |
| 107) In the race for Student E received x votes, how m | Body President, Jose recei nany votes did Jose receiv | | n Angela. If Angela | 107) |
| A) (x - 325) votes | B) (x + 325) votes | C) 325x votes | D) (325 - x) votes | |
| 108) During a walk-a-thon, F many laps did Rosilyn v | walk? | - | - | 108) |
| A) (b - 9) laps | B) <u>b</u> 9 laps | C) (b + 9) laps | D) (9 - b) laps | |
| 109) If x represents the first of terms of x. | of four consecutive even i | ntegers, express the sun | n of the four integers in | 109) |
| A) 4x + 4 | B) 4x + 12 | C) x + 12 | D) 4x + 6 | |
| 110) If x represents the first of and the fourth integer in | n terms of x. | | | 110) |
| A) 4x + 12 | B) $4x + 8$ | C) $2x + 6$ | D) 2x + 8 | |
| 111) If x is the first of three c algebraic expression in | · · | | e third integer as an | 111) |
| A) x + 38 | B) x + 37 | C) 2x + 39 | D) x + 39 | |
| 112) The sum of the angles o angle measures $(6x + 25)$ | f a triangle is 180° . If one $\overline{0}^{\circ}$, express the measure o | | | 112) |

| A) (155 - 7x)° | B) (155 - 6x)° | C) (205 - 7x)° | D) (155 + 7x)° | |
|--|----------------------------|---------------------|---------------------------|------|
| 113) A quadrilateral is a four-s second angle measures 4x angle in terms of x. | | - | | 113) |
| A) (360 - 9x)° | B) (360 - 10x)° | C) (360 + 10x)° | D) (10x - 360)° | |
| Solve. | | | . 1 (41 | 114) |
| 114) A pharmacist is asked to a If the antibiotic is to be giv given in each dose? | | | - | 114) |
| A) 3.75 ml | B) 0.94 ml | C) 1.88 ml | D) 1.07 ml | |
| Solve the equation. | | | | |
| 115) $7x - (5x - 1) = 2$ A) $\frac{1}{2}$ | B) $\frac{1}{2}$ | C) $\frac{1}{12}$ | D) $\frac{1}{12}$ | 115) |
| 116) $3(2x - 1) = 12$ A) $\frac{3}{2}$ | B) 5 | C) 11 | D) 13 | 116) |
| $\frac{1}{2}$ | B) $\frac{5}{2}$ | C) $\frac{11}{6}$ | D) <u>13</u> <u>6</u> | |
| 117) $(y - 6) - (y + 2) = 5y$ A) $\frac{8}{5}$ | B) - 2 | C) $\frac{4}{3}$ | D) <u>3</u> 5 | 117) |
| 5 | | - 3 | _ 5 | |
| 118) $7n = 8(5n + 6)$ A) $\frac{11}{16}$ | B) <u>16</u> <u>11</u> | C) <u>48</u> 7 | D) <u>16</u> <u>11</u> | 118) |
| | | | - | 110) |
| 119) $6y = 7(5y - 9)$ A) $\frac{29}{63}$ | B) <u>63</u> <u>29</u> | C) <u>21</u> 2 | D) $\frac{63}{29}$ | 119) |
| 120) $15(8x - 5) = 4x - 8$ | D) 83 | C) 67 | D) 67 | 120) |
| A) <u>67</u> <u>124</u> | B) <u>83</u> <u>116</u> | C) $\frac{67}{116}$ | D) <u>67</u> 116 | |
| 121) 2(y + 6) = 3(y - 8) A) -12 | B) 12 | C) 36 | D) -36 | 121) |
| 122) 3(2z - 4) = 5(z + 2) A) 1 | B) -2 | C) 22 | D) 2 | 122) |
| 123) 3(2z - 4) = 5(z - 4) A) 32 | B) 8 | C) -8 | D) 11 | 123) |
| 124) -6x + 7(-2x - 2) = -29 - 5x A) - 1 | B) 1 | C) <u>43</u> 25 | D) <u>43</u> 15 | 124) |
| | | | 10 | |

| 125) $\frac{1}{6}$ x - 3 = 1 | | | | 125) |
|--|-----------------|---------|----------|------|
| A) -24 | B) -12 | C) 24 | D) 12 | |
| 126) $\frac{1}{5} \times \frac{1}{5} = -3$ | | | | 126) |
| A) 16 | B) 14 | C) -14 | D) -16 | |
| 127) $\frac{x}{7}$ - 9 = -5 A) 28 | | | | 127) |
| A) 28 | B) -30 | C) 30 | D) -28 | |
| 128) $\frac{2}{5}x - \frac{1}{3}x = 3$ | | | | 128) |
| x - x = 3 A) -90 | B) -45 | C) 45 | D) 90 | |
| 129) $\frac{3}{2}_{x + \frac{1}{5}} = \frac{7}{5}_{x}$ | | | | 129) |
| A) -16 | B) 2 | C) 16 | D) -2 | |
| 130) $\frac{1}{3}_{x+2} = \frac{1}{6}_{x+3} + \frac{4}{3}_{x+2}$ | | | | 130) |
| A) 4 | B) -4 | C) 3 | D) -12 | |
| $131) \frac{4(8-x)}{3} = -x$ | | | | 131) |
| A) -4 | B) 32 | C) -32 | D) 4 | |
| 132) $\frac{5(8-x)}{3}$ | | | | 132) |
| = x A) -40 | B) 40 | C) -5 | D) 5 | |
| 133) $\frac{5(y-4)}{3}$ | | | | 133) |
| = 2y - 5 A) -5 | B) -35 | C) 35 | D) 5 | |
| 134) -0.08y + 0.12(5000 - y) = 0 A) 7200 | .05y B) 1500 | C) 150 | D) 2400 | 134) |
| 135) -0.65(20) + 0.70x = 0.40(20 |) + x) | | | 135) |
| A) 70 | B) 80 | C) 35 | D) 60 | |
| 136) 0.50x - 0.30(50 + x) = -0.18 A) 40 | 6(50) B) 15 | C) 30 | D) 20 | 136) |
| 137) 1.3x + 4.4 = 0.7x - 0.52 A) -8.19 | B) -8.118 | C) -8.2 | D) 0.122 | 137) |
| 138) 7x - 5 - 7x + 1 = 6x - 6x - 7 | | | | 138) |

| A) -224 C) all real | numbers | B) no solution D) 0 | | |
|----------------------------------|---|------------------------|-------------|------|
| 139) $4(x + 6) = (4x)$ | (+ 24) | | | 139) |
| A) all real | | B) 48 | | |
| C) no solu | | D) 0 | | |
| 140) 4(x + 5) - (4x | +20) = 0 | | | 140) |
| A) no solu | | B) 0 | | / |
| C) 5 | | D) all real numbers | | |
| 141) -7(x + 7) + 68 | B = 2x - 9(x + 1) | | | 141) |
| A) 59 | | B) 77 | | |
| C) no solu | tion | D) all real numbers | | |
| 142) $\frac{x}{6} = \frac{x}{6}$ | | | | 142) |
| A) all real | numbers | B) 0 | | |
| C) 24 | numbers | D) no solution | | |
| 0) = 1 | | 2)110 00144011 | | |
| 143) $\frac{1}{3}(6x - 9) = 60$ | $\left(\frac{1}{3}x - \frac{1}{2}\right) + 8$ | | | 143) |
| A) no solu | | B) all real numbers | | |
| C) 2 | | D) 0 | | |
| 144) 1.1m - 1.3 - 6 | .6m = -5.1 - 5.5m + 3.8 | | | 144) |
| A) 0 | | B) no solution | | |
| C) -4.0 | | D) all real numbers | | |
| 145) 0.07(6x - 6) = | 0.42(x + 7) - 3.36 | | | 145) |
| A) -0.42 | | B) -3.36 | | |
| C) no solu | tion | D) all real numbers | | |
| - | variable expression. Use x for t | he unknown number. | | |
| 146) A number su | | | | 146) |
| A) -2 + x | B) -2 - x | C) x + 2 | D) x - 2 | |
| 147) Three times | a number | | | 147) |
| A) $\frac{3}{x}$ | B) 3x | C) x - 3 | D) 3 - x | |
| 148) The sum of | 18 and twice a number | | | 148) |
| A) 2(-18 + | 18 and twice a number x) B) -18 + x | C) -18 + 2x | D) -18 - 2x | 148) |
| | | | | 1.10 |
| , | ce of -15 and twice a number | | D) 15 0 | 149) |
| A) -15 - 2x | B) 2(-15 - x) | C) 2x + 15 | D) -15 + 2x | |
| 150) The product | of -24 and the sum of a number | and 29 | | 150) |
| A) $-24x + 2$ | | C) -24(x + 29) | D) -696x | , |
| 151) The auotient | of - 13 and the difference of a r | number and 8 | | 151) |
| A) | | | | / |
| | | | | |

| $\frac{-13}{x-8}$ | B) $\frac{-13}{8-x}$ | C) $\frac{8}{x+13}$ | D) $\frac{-13}{x+8}$ | |
|--|--|---|---|----------|
| | | | | |
| Write the following as an e 152) Four times a num A) $4x + 8x = 60$ C) $4x - 8x = 60$; | ber added to 8 times ; 5 | the unknown number. The the number equals 60. Find B) $4x(8 + x)$ D) $4(x + 8) =$ | d the number. = 60; 7.5 | 152) |
| | umber is subtracted f 9 | | he result is 18. Find the numb = 18; -9 | er. 153) |
| 154) If 5 times a numb A) 5x + (-4) = 9 C) 14x - 9x = 4; | x; -1 | result is equal to 9 times th B) 4x + (-4) D) 9(5x - 4) | | 154) |
| 155) Three-fourths of (A) $\frac{3}{4} + x = \frac{1}{2}$; $\frac{1}{2}$ | a number is $\frac{1}{2}$. Find B) $\frac{3}{4} = \frac{1}{2}$ | the number in lowest terms $\frac{4}{6}$ C) $\frac{3}{4}$ $\frac{1}{2}$; $x = \frac{1}{2}$; | s. $\frac{3}{8}$ D) $\frac{3}{4} \frac{1}{x} = \frac{2}{3}$ | 155) |
| 156) The sum of four t the number. A) 4x + 3 = 2x - C) 4x + 3 = 2x - | 1; -2 | - | of twice the number and 1. Fir $\frac{13}{2}$ = 2x - 1; - 2x - 1; 2 | nd 156) |
| | | hree is the same as the diff | erence of twice the number ar | nd 157) |
| eleven. Find the r A) -7 | B) 4 | C) 7 | D) -17 | |
| 158) The difference of number. | triple a number and | $\frac{1}{2}$ is equal to the sum of the | The number and $\frac{2}{3}$. Find the | 158) |
| A) <u>7</u> 12 | B) <u>7</u> 12 | C) <u>1</u> 12 | D) <u>13</u> 12 | |
| 159) If the sum of a nu Find the number. | | bled, the result is six less th | han three times the number. | 159) |
| A) 22 | B) 5 | C) 10 | D) $\frac{2}{5}$ | |
| three. Find the nu | ımber. | - | es the sum of the number and | 160) |
| A) -7 | B) -2 | C) 11 | D) -11 | |
| 161) Six times a numb | er, added to -3, is 21. | Find the number. | | 161) |

| A) 24 | B) 144 | C) -4 | D) 4 | |
|---|--|--|--|------|
| 162) Nine times a number | | | | 162) |
| A) 9 | B) 729 | C) 81 | D) -9 | |
| 163) Four times the sum o | - | - | mber minus 15. | 163) |
| A) 27 | B) 9 | C) -9 | D) -27 | |
| 164) The difference of a n A) - 28 | umber and 9 is the sam B) 19 | e as 47 less the number. F C) 28 | ind the number. D) - 19 | 164) |
| 165) Five times some nun | nber added to 3 amount | ts to -3 added to the prod | uct of 3 and the number. | 165) |
| A) -3 | B) 6 | C) -6 | D) 3 | |
| 166) Six times the sum of | a number and -18 amou | unts to 42. Find the numb | per. | 166) |
| A) -11 | B) 4 | C) 25 | D) 10 | |
| 167) A number subtracted | from 12 is the quotien | t of -20 and -5. Find the n | umber | 167) |
| A) 8 | B) 7 | C) 16 | D) -88 | 107) |
| heads. If the total of A) president's sala B) president's sala C) president's sala | their salaries is \$200,000 ny = \$100,000; departme ny = \$50,000; departme ny = \$15,000; departme | three times as much mon), find each worker's salar ent head's salary = \$50,00 nt head's salary = \$150,00 nt head's salary = \$5000 ent head's salary = \$50,00 | 00 | 168) |
| marbles in the first b A) 1st bag = 5 mar B) 1st bag = 6 mar C) 1st bag = 6 mar | ag and the third bag ha ag, find the number of bles; 2nd bag = 10 mark bles; 2nd bag = 14 mark bles; 2nd bag = 18 mark | s twice as many as the fir | est bag. If x is the number of | 169) |
| for all calls. If Joe's p | 0 | r this promotional deal, h | sic fee plus \$0.05 per minute low many minutes of phone D) 1280 | 170) |
| | nd angle is (3x - 2)°, find 2nd angle = 59° | the measure of each ang B) 1st angle = 2 | he first angle is x°, and the le. 2°; 2nd angle = 64° 3°; 2nd angle = 67° | 171) |
| to spend. | car for 5 days, how ma | ny whole miles can you c | trive if you only have \$200 | 172) |
| A) 326 | B) 40 | C) 51 | D) 75 | |
| | into 2 pieces so that one s x feet long, find the ler | | n 3 times the shorter piece. | 173) |

| A) shorter piece: 6 ft C) shorter piece: 1 ft | | · • | 4 ft; longer piece: 44 ft 8 ft; longer piece: 36 ft | |
|--|--|--|--|------|
| 174) Mary and her brother J | | | | 174) |
| A) 120 coins | they have 160 foreign co B) 40 coins | C) 112 coins | D) 24 coins | |
| 175) Center City East Parkir Garage. If the combine garage. | ng Garage has a capacity o d capacity for the two gai | | | 175) |
| A) Center City East: | 742 cars | B) Center City Eas | t: 483 cars | |
| Center City West | | Center City We | | |
| C) Center City East: | 473 cars | D) Center City Eas | t: 752 cars | |
| Center City West | : 752 cars | Center City We | st: 473 cars | |
| 176) During an intramural l both teams scored a to A) 65 points | pasketball game, Team A tal of 14 7 points. How ma B) 6 6 points | - | - | 176) |
| 177) To trim the edges of a cloth is exactly one-hal | rectangular table cloth, 66 f its width. What are the o | | - | 177) |
| A) length: 22 ft; widt | :h: 44 ft | B) length: 11 ft; wi | | |
| C) <u>1</u> | | D) length: 22 ft; wi | dth: 11 ft | |
| C) $\frac{1}{1}$ length: 5^2 ft; wid | lth: 11 ft | | | |
| 178) The length of a rectang | ular room is 6 feet longer | than twice the width. | If the room's perimeter is | 178) |
| 132 feet, what are the r | | | | |
| A) Width = 20 ft; len | 0 | B) Width = 25 ft; le | 0 | |
| C) Width = 40 ft; len | gth = 92 ft | D) Width = 30 ft; le | ength = 36 ft | |
| 179) The perimeter of a trian centimeters longer than shortest side. | ngle is 45 centimeters. Fin n the shortest side, and th | | | 179) |
| A) 12 cm, 14 cm, 19 c | cm | B) 14 cm, 16 cm, 22 | l cm | |
| C) 12 cm, 14 cm, 21 c | cm | D) 5 cm, 10 cm, 12 | cm | |
| each base of the trapez | orter base, and the area of oidal patio. | the patio is 8000 square | e feet. Find the length of | 180) |
| A) 392 ft; 408 ft | B) 196 ft; 196 ft | C) 196 ft; 204 ft | D) 96 ft; 104 ft | |
| sum is 72 and the U.S. did each team win? A) U.S.: 23 medals; C | al Gymnastics competition mber of medals won by e won more than China wh China: 22 medals; Romani China: 25 medals; Romani | ach team are three cons to won more than Roma a: 21 medals | ecutive integers whose | 181) |
| - | China: 24 medals; Romani | | | |
| - | China: 73 medals; Romani | | | |
| 182) The sum of three conse | cutive integers is 468. Fir | id the numbers. | | 182) |
| A) 156, 157, 158 | B) 155, 156, 157 | C) 154, 155, 156 | D) 154, 156, 158 | , |

| A) 184, 186 B) 183, 185 C) 185, 187 D) 184, 368 184) The code to unlock a safety deposit box is three consecutive odd integers whose sum is 81. Find 184) the integers. A) 25, 27, 29 B) 26, 28, 30 C) 27, 29, 31 D) 27, 28, 29 settiute the given values into the formula and solve for the unknown variable. 185) A = r. 185) 185) d = rt: t = 2, d = 8 B) 6 C) 0.3 D) 10 186) 186) d = rt: t = 2, d = 8 B) 6 C) 0.3 D) 10 186) 187) V = 3A, r V = 63, h = 9 D) 11 C) 9 D) 10 186) 187) V = 3A, r V = 63, h = 9 D) 27, 25, 25 D) 7 188) 189) 1 = prt; I = 157.5, p = 250, r = 0.07 B) 2756.25 C) 27.5625 D) 9 188) 189) A = $\frac{1}{2^2}$ B) 6 C) 156 D) $\frac{1}{62^2}$ 189) 189 A = $\frac{1}{12^2}$ B) 6 C) 156 D) 14°F 190) Use the formula $F = \frac{9}{5}C + 32$ to convert 10°C to degrees Fahrenheit. D) 591.8°C 191) Use the formula $C = \frac{5}{9}(F - 32)$ to convert 311°F to degrees Celsius. D) 591.8°C 192) A) 140.8°C B) r = dt C | 370, find the house nu | | | | |
|--|-----------------------------------|--|---------------------------|---------------------------|-------|
| the integers. A) 25, 27, 29 B) 26, 28, 30 C) 27, 29, 31 D) 27, 28, 29 solute the given values into the formula and solve for the unknown variable. 185) d = rt; t = 2, d = 8 A) 4 B) 6 C) 0.3 D) 10 186) P = 2L + 2W; P = 22, W = 2 A) 20 B) 11 C) 9 D) 10 187) V = $\frac{1}{3}$ Ah; V = 63, h = 9 A) 72 B) 21 C) 567 D) 7 188) I = prt; I = 157.5, p = 250, r = 0.07 A) 0.9 B) 2756.25 C) 27.5625 D) 9 189) A = $\frac{1}{2}$ (B + b)h; A = 75, b = 12, B = 13 A) $\frac{1}{12^2}$ B) 6 C) 156 D) $\frac{1}{62^2}$ 190) Use the formula $F = \frac{9}{5}C + 32$ to convert 10°C to degrees Fahrenheit. A) 50°F B) 23.4°F C) 122°F D) -14°F 191) Use the formula $C = \frac{5}{9}(F - 32)$ to convert 311°F to degrees Celsius. B) 190.6°C C) 155°C D) 591.8°C r = the formula for the specified variable. 192) d = rt for r A) $\frac{d}{r} = \frac{1}{r}$ B) r = dt C) r = d - t D) $\frac{1}{r} = \frac{1}{rt}$ 193) I = Prt for P A) P = r - 1t B) $\frac{r-1}{1+t}$ C) $\frac{r-1}{1t}$ D) $\frac{1}{r} = \frac{1}{rt}$ 194) A = $\frac{1}{2}$ bh for b | A) 184, 186 | B) 183, 185 | C) 185, 187 | D) 184, 368 | |
| A) 25, 27, 29 B) 26, 28, 30 C) 27, 29, 31 D) 27, 28, 29 estitute the given values into the formula and solve for the unknown variable. 185) d = rt; t = 2, d = 8 A) 4 B) 6 C) 0.3 D) 10 186) P = 2L + 2W; P = 22, W = 2 A) 20 B) 11 C) 9 D) 10 187) V = $\frac{1}{3}$ Ah; V = 63, h = 9 A) 72 B) 21 C) 567 D) 7 188) 1 = prt; 1 = 157.5, p = 250, r = 0.07 A) 0.9 B) 2756.25 C) 27.5625 D) 9 189) A = $\frac{1}{2}$ (B + b)h; A = 75, b = 12, B = 13 A) $\frac{1}{12}$ B) 6 C) 156 D) $\frac{1}{62}$ 190) Use the formula F = $\frac{9}{5}$ C + 32 to convert 10°C to degrees Fahrenheit. B) 23.4°F C) -12.2°F D) -14°F 191) Use the formula C = $\frac{5}{9}$ (F - 32) to convert 311°F to degrees Celsius. A) 140.8°C D) 591.8°C Ve the formula for the specified variable. 192) A = $\frac{d}{t}$ B) 190.6°C C) r = d · t D) $\frac{t}{r}$ 193) A = $\frac{1}{2}$ bh $\frac{1}{r}$ for b A) P = r · 1t B) $\frac{r-1}{r+t}$ C) $\frac{r-1}{1t}$ D) $\frac{t}{r}$ 194) A = $\frac{1}{2}$ bh $\frac{1}{r}$ for b A = $\frac{1}{r}$ A = $\frac{1}{2}$ bh $\frac{1}{r}$ for b A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ A = $\frac{1}{r}$ A = $\frac{1}{r}$ bh $\frac{1}{r}$ for b A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ A = $\frac{1}{r}$ A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ | 184) The code to unlock a s | afety deposit box is thre | e consecutive odd integer | s whose sum is 81. Find | 184) |
| $\begin{aligned} \text{stitute the given values into the formula and solve for the unknown variable.} \\ 185) d = rt; t = 2, d = 8 \\ A) 4 & B) 6 & C) 0.3 & D) 10 \end{aligned} $ $\begin{aligned} 186) P = 2L + 2W; P = 22, W = 2 \\ A) 20 & B) 11 & C, 9 & D) 10 \end{aligned} $ $\begin{aligned} 186) P = 2L + 2W; P = 22, W = 2 \\ A) 20 & B) 11 & C, 9 & D) 10 \end{aligned} $ $\begin{aligned} 186) P = 2L + 2W; P = 22, W = 2 \\ A) 20 & B) 11 & C, 9 & D) 10 \end{aligned} $ $\begin{aligned} 187) V = \frac{1}{3}Ah; V = 63, h = 9 \\ A, 72 & B) 21 & C, 567 & D, 7 \end{aligned} $ $\begin{aligned} 188) I = prt; I = 157.5, p = 250, r = 0.07 \\ A) 0.9 & B, 2756.25 & C, 27.5625 & D, 9 \end{aligned} $ $\begin{aligned} 189) A = \frac{1}{2}(B + b)h; A = 75, b = 12, B = 13 \\ A, 0, \frac{1}{12}^2 & B, 6 & C, 156 & D, \frac{1}{62}^2 \end{aligned} $ $\begin{aligned} 190) Use the formula F = \frac{9}{5}C + 32 to convert 10°C to degrees Fahrenheit. \\ A) 50°F & F & B, 23.4°F & C, -12.2°F & D, -14°F \end{aligned} $ $\begin{aligned} 191) Use the formula C = \frac{5}{9}(F \cdot 32) to convert 311°F to degrees Celsius. \\ B) 190.6°C & C, 155°C & D, 591.8°C \end{aligned} $ $\begin{aligned} 192) d = rt & for r \\ A, 0 = \frac{d}{t} & B, r = dt & C, r = d - t & D, \frac{t}{r} & \frac{1}{t} \end{aligned} $ $\begin{aligned} 192) d = Prt & for P \\ A, P = r - It & B, \frac{r - 1}{1 + t} & C, \frac{r - 1}{1 + t} & D, \frac{1}{P} = \frac{1}{rt} \end{aligned} $ $\begin{aligned} 193) A = \frac{1}{2}bh & for b \end{aligned}$ | the integers. | | | | |
| $185) d = rt, t = 2, d = 8 $ $A) 4 B) 6 C) 0.3 D) 10$ $186) P = 2L + 2W; P = 22, W = 2 $ $A) 20 B) 11 C) 9 D) 10$ $186)$ $187) V = \frac{1}{3} Ah; V = 63, h = 9 $ $A) 72 B) 21 C) 567 D) 7$ $188) I = prt; I = 157.5, p = 250, r = 0.07 $ $A) 0.9 B) 2756.25 C) 27.5625 D) 9$ $189) A = \frac{1}{2} (B + b)h; A = 75, b = 12, B = 13 $ $A) \frac{1}{12} B) 6 C) 156 D) \frac{1}{62} $ $190) Use the formula F = \frac{9}{5} C + 32 to convert 10°C to degrees Fahrenheit. B) 23.4°F C) 12.2°F D) 14°F$ $191) Use the formula C = \frac{5}{9} (F - 32) to convert 31°F to degrees Celsius. B) 190.6°C C) 155°C D) 591.8°C$ $192) d = rt for r B) 10.6°C C) r = d - t D) \frac{t}{r} \frac{t}{d}$ $192) A = \frac{1}{r} \frac{d}{t} B) r = dt C) r = d - t D) \frac{t}{r} \frac{t}{d}$ $193) I = Prt for P B) r = dt C) r = d - t D) \frac{t}{r} \frac{t}{d}$ $194) A = \frac{1}{2} bh for b$ $195) A = \frac{1}{10} b for b$ $105) A = \frac{1}{10} b for b$ $105 A = 1$ | A) 25, 27, 29 | B) 26, 28, 30 | C) 27, 29, 31 | D) 27, 28, 29 | |
| 185) d = rt, t = 2, d = 8 (185) (185) d = rt, t = 2, d = 8 (186) P = 2L + 2W; P = 22, W = 2 (186) A) 20 (187) V = $\frac{1}{3}$ (187) V = $\frac{1}{3}$ (187) A) $\frac{1}{2}$ (187) A) $\frac{1}{2}$ (188) I = prt; I = 157.5, p = 250, r = 0.07 (188) I = prt; I = 157.5, p = 250, r = 0.07 (188) A) $\frac{1}{2}$ (189) A = $\frac{1}{2}$ (189) A = $\frac{1}{2}$ (190) Use the formula F = $\frac{9}{5}$ C + 32 to convert 10°C to degrees Fahrenheit. (A) 50°F F B) 23.4°F C) 156 (C) 156 (D) $\frac{1}{62}$ (190) Use the formula C = $\frac{5}{9}$ (F - 32) to convert 31°F to degrees Celsius. (A) 140.8°C (B) 190.6°C (C) 155°C (D) 591.8°C (C) 1591.8°C (C) | stitute the given values into | the formula and solve | for the unknown variabl | e. | |
| $186) P = 2L + 2W; P = 22, W = 2A) 20 B) 11 C) 9 D) 10$ $187) V = \frac{1}{3}Ah; V = 63, h = 9A) 72 B) 21 C) 567 D) 7$ $188) I = prt; I = 157.5, p = 250, r = 0.07A) 0.9 B) 2756.25 C) 27.5625 D) 9$ $189) A = \frac{1}{2}(B + b)h; A = 75, b = 12, B = 13A) \frac{1}{12^2} B) 6 C) 156 D) \frac{1}{62^2}$ $190) Use the formula F = \frac{9}{5}C + 32 to convert 10°C to degrees Fahrenheit.A) 50°F B = \frac{5}{7}C + 32 to convert 10°C to degrees Celsius.A) 140.8°C B) 23.4°F C) -12.2°F D) -14°F$ $191) Use the formula C = \frac{5}{9}(F - 32) to convert 311°F to degrees Celsius.A) 140.8°C B) 190.6°C C) 155°C D) 591.8°C 192) d = rt for rA) d = \frac{1}{t} B) r = dt C) r = d - t D) \frac{t}{r = \frac{1}{t}} 193) I = Prt for PA) P = r - It B) \frac{r - I}{P} \frac{r - I}{1 + t} C) \frac{r - 1}{P} \frac{1}{t} D) \frac{I}{P} \frac{I}{rt} 194) A = \frac{1}{2}bh for b 194)$ | - | | | | 185) |
| A) 20 B) 11 C) 9 D) 10 187) $V = \frac{1}{3} A_{h;} V = 63, h = 9 A) 72$ B) 21 C) 567 D) 7 188) I = prt; I = 157.5, p = 250, r = 0.07 B) 2756.25 C) 27.5625 D) 9 189) $A = \frac{1}{2} (B + b)h; A = 75, b = 12, B = 13 A) \frac{1}{12} B) 6$ C) 156 D) $\frac{1}{62^2}$ 190) Use the formula $F = \frac{9}{5} C + 32$ to convert 10°C to degrees Fahrenheit. A) 50°F B $B > 23.4°F$ C) -12.2°F D) -14°F 191) Use the formula $C = \frac{5}{9} (F \cdot 32)$ to convert 311°F to degrees Celsius. A) 140.8°C B) 190.6°C C) 155°C D) 591.8°C ve the formula for the specified variable. 192) $d = rt$ for r A) $\frac{d}{t}$ B) r = dt C) r = d \cdot t D) $\frac{1}{r} \frac{d}{t}$ 193) I = Prt for P A) $P = r \cdot 1t$ B) $\frac{r-1}{P} = \frac{r-1}{1+t}$ C) $\frac{r-1}{t}$ D) $\frac{1}{r} \frac{1}{rt}$ 194) $A = \frac{1}{2} bh$ for b to b | A) 4 | B) 6 | C) 0.3 | D) 10 | |
| A) 20 B) 11 C) 9 D) 10 187) $V = \frac{1}{3} A_{h;} V = 63, h = 9 A) 72$ B) 21 C) 567 D) 7 188) I = prt; I = 157.5, p = 250, r = 0.07 B) 2756.25 C) 27.5625 D) 9 189) $A = \frac{1}{2} (B + b)h; A = 75, b = 12, B = 13 A) \frac{1}{12} B) 6$ C) 156 D) $\frac{1}{62^2}$ 190) Use the formula $F = \frac{9}{5} C + 32$ to convert 10°C to degrees Fahrenheit. A) 50°F B $B > 23.4°F$ C) -12.2°F D) -14°F 191) Use the formula $C = \frac{5}{9} (F \cdot 32)$ to convert 311°F to degrees Celsius. A) 140.8°C B) 190.6°C C) 155°C D) 591.8°C ve the formula for the specified variable. 192) $d = rt$ for r A) $\frac{d}{t}$ B) r = dt C) r = d \cdot t D) $\frac{1}{r} \frac{d}{t}$ 193) I = Prt for P A) $P = r \cdot 1t$ B) $\frac{r-1}{P} = \frac{r-1}{1+t}$ C) $\frac{r-1}{t}$ D) $\frac{1}{r} \frac{1}{rt}$ 194) $A = \frac{1}{2} bh$ for b to b | 186) $P = 2L + 2W$; $P = 22$. | W = 2 | | | 186) |
| A) 72 B) 21 C) 567 D) 7 188) I = prt; I = 157.5, p = 250, r = 0.07 B) 2756.25 C) 27.5625 D) 9 189) $A = \frac{1}{2}(B + b)h; A = 75, b = 12, B = 13 A) \frac{1}{12^2}$ B) 6 C) 156 D) $\frac{1}{62^2}$ 190) $A = \frac{9}{5}C + 32$ to convert 10°C to degrees Fahrenheit. A) 50°F B) 23.4°F C) ·12.2°F D) ·14°F 191) Use the formula $C = \frac{5}{9}(F - 32)$ to convert 311°F to degrees Celsius. A) 140.8°C B) 190.6°C C) 155°C D) 591.8°C 192) d = rt for r A) $\frac{d}{t}$ B) r = dt C) r = d - t D) $\frac{t}{r} = \frac{t}{d}$ 192) $A = \frac{1}{r}$ b) r = dt C) r = d - t D) $\frac{t}{r} = \frac{t}{r}$ 193) I = Prt for P A) $\frac{d}{r} = \frac{1}{r}$ b) $\frac{r-1}{r} = \frac{1}{1+t}$ C) $\frac{r-1}{r}$ D) $\frac{1}{r} = \frac{1}{rt}$ 194) $\frac{1}{A} = \frac{1}{2}bh$ for b | | | C) 9 | D) 10 | |
| A) 72 B) 21 C) 567 D) 7 188) I = prt; I = 157.5, p = 250, r = 0.07 B) 2756.25 C) 27.5625 D) 9 189) $A = \frac{1}{2}(B + b)h; A = 75, b = 12, B = 13 A) \frac{1}{12^2}$ B) 6 C) 156 D) $\frac{1}{62^2}$ 190) $A = \frac{9}{5}C + 32$ to convert 10°C to degrees Fahrenheit. A) 50°F B) 23.4°F C) ·12.2°F D) ·14°F 191) Use the formula $C = \frac{5}{9}(F - 32)$ to convert 311°F to degrees Celsius. A) 140.8°C B) 190.6°C C) 155°C D) 591.8°C 192) d = rt for r A) $\frac{d}{t}$ B) r = dt C) r = d - t D) $\frac{t}{r} = \frac{t}{d}$ 192) $A = \frac{1}{r}$ b) r = dt C) r = d - t D) $\frac{t}{r} = \frac{t}{r}$ 193) I = Prt for P A) $\frac{d}{r} = \frac{1}{r}$ b) $\frac{r-1}{r} = \frac{1}{1+t}$ C) $\frac{r-1}{r}$ D) $\frac{1}{r} = \frac{1}{rt}$ 194) $\frac{1}{A} = \frac{1}{2}bh$ for b | 187) 1 | | | | 187) |
| A) 72 B) 21 C) 567 D) 7 188) I = prt; I = 157.5, p = 250, r = 0.07 B) 2756.25 C) 27.5625 D) 9 189) $A = \frac{1}{2}(B + b)h; A = 75, b = 12, B = 13 A) \frac{1}{12^2}$ B) 6 C) 156 D) $\frac{1}{62^2}$ 190) $A = \frac{9}{5}C + 32$ to convert 10°C to degrees Fahrenheit. A) 50°F B) 23.4°F C) ·12.2°F D) ·14°F 191) Use the formula $C = \frac{5}{9}(F - 32)$ to convert 311°F to degrees Celsius. A) 140.8°C B) 190.6°C C) 155°C D) 591.8°C 192) d = rt for r A) $\frac{d}{t}$ B) r = dt C) r = d - t D) $\frac{t}{r} = \frac{t}{d}$ 192) $A = \frac{1}{r}$ b) r = dt C) r = d - t D) $\frac{t}{r} = \frac{t}{r}$ 193) I = Prt for P A) $\frac{d}{r} = \frac{1}{r}$ b) $\frac{r-1}{r} = \frac{1}{1+t}$ C) $\frac{r-1}{r}$ D) $\frac{1}{r} = \frac{1}{rt}$ 194) $\frac{1}{A} = \frac{1}{2}bh$ for b | $V = \frac{3}{4h}$ $V = 62 h$ | - 9 | | | 10/) |
| $188) I = prt; I = 157.5, p = 250, r = 0.07 B) 2756.25 C) 27.5625 D) 9$ $189) A = \frac{1}{2}(B + b)h; A = 75, b = 12, B = 13 A) \frac{1}{12^2} B) 6 C) 156 D) \frac{1}{62^2}$ $190) A = \frac{9}{5}C + 32 \text{ to convert } 10^{\circ}C \text{ to degrees Fahrenheit.} B) 23.4^{\circ}F C) -12.2^{\circ}F D) -14^{\circ}F$ $191) Use the formula F = \frac{5}{9}(F - 32) \text{ to convert } 311^{\circ}F \text{ to degrees Celsius.} A) 140.8^{\circ}C B) 190.6^{\circ}C C) 155^{\circ}C D) 591.8^{\circ}C$ $192) d = rt for r B) r = dt C) r = d \cdot t D) \frac{t}{r} = \frac{1}{rt}$ $193) I = Prt for P B) r = dt C) r = d \cdot t D) r = \frac{t}{rt}$ $194) A = \frac{1}{2}bh for b$ $194) A = \frac{1}{2}bh for b$ | | | C) 567 | D) 7 | |
| A) 0.9 B) 2756.25 C) 27.5625 D) 9 189) $A = \frac{1}{2}(B + b)h; A = 75, b = 12, B = 13$ A) $\frac{1}{12^2}$ B) 6 C) 156 D) $\frac{1}{62^2}$ 190) $\frac{1}{12^2}$ B) 6 C) 156 D) $\frac{1}{62^2}$ 190) Use the formula $F = \frac{9}{5}C + 32$ to convert 10°C to degrees Fahrenheit. A) 50°F B B) 23.4°F C) -12.2°F D) -14°F 191) Use the formula $C = \frac{5}{9}(F \cdot 32)$ to convert 311°F to degrees Celsius. A) 140.8°C B) 190.6°C C) 155°C D) 591.8°C ve the formula for the specified variable. 192) $d = rt$ for r A) $\frac{d}{t}$ B) r = dt C) r = d - t D) $\frac{t}{r} = \frac{1}{t}$ 193) I = Prt for P A) $P = r \cdot 1t$ B) $\frac{r-1}{1+t}$ C) $r = d - t$ D) $\frac{1}{r}$ (193) 194) $A = \frac{1}{2}bh$ for b to be the set of | | | | | |
| $ \begin{array}{ll} 189) & = \frac{1}{2} \\ A = \frac{1}{2} \\ (B + b)h; A = 75, b = 12, B = 13 \\ A) & \frac{1}{12} \\ 190) \\ Use the formula F = \frac{9}{5} \\ C + 32 to convert 10^{\circ}C to degrees Fahrenheit. \\ A) 50^{\circ}F \\ B) 23.4^{\circ}F \\ C) -12.2^{\circ}F \\ D) -14^{\circ}F \\ 191) \\ Use the formula C = \frac{5}{9} \\ (F - 32) to convert 311^{\circ}F to degrees Celsius. \\ A) 140.8^{\circ}C \\ B) 190.6^{\circ}C \\ C) 155^{\circ}C \\ D) 591.8^{\circ}C \\ \end{array} $ $\begin{array}{l} 191) \\ 192) \\ d = rt \\ r = \\ \end{array} $ $\begin{array}{l} 192) \\ d = rt \\ r = \\ \end{array} $ $\begin{array}{l} 192) \\ d = rt \\ r = \\ \end{array} $ $\begin{array}{l} 192) \\ d = rt \\ r = \\ \end{array} $ $\begin{array}{l} 192) \\ d = rt \\ r = \\ \end{array} $ $\begin{array}{l} 192) \\ P = r \cdot It \\ B) \\ P = \frac{r - I}{1 + t} \\ P = \\ \end{array} $ $\begin{array}{l} 193) \\ P = \frac{1}{1t} \\ \end{array} $ $\begin{array}{l} 193) \\ P = \\ 194) \\ A = \\ \end{array} $ $\begin{array}{l} 194) \\ A = \\ 194) \\ A = \\ 194) \\ D \\ D$ | | | 0 | | 188) |
| 12^{2} 62^{2} $190) \qquad \qquad$ | A) 0.9 | B) 2756.25 | C) 27.5625 | D) 9 | |
| 12^{2} 62^{2} $190) \qquad \qquad$ | 189) <u>1</u> | | | | 189) |
| 12^{2} 62^{2} $190) \qquad \qquad$ | $A = {}^{2}(B + b)h; A = 7$ | 75, b = 12, B = 13 | | | |
| 12^{2} 62^{2} $190) \qquad \qquad$ | A) 1 | B) 6 | C) 156 | D) 1 | |
| $190) \qquad \qquad$ | 122 | | | 62 ² | |
| A) 50°F B) 23.4°F C) -12.2°F D) -14°F 191) Use the formula C = $\frac{5}{9}$ (F - 32) to convert 311°F to degrees Celsius. A) 140.8°C B) 190.6°C C) 155°C D) 591.8°C ve the formula for the specified variable. 192) d = rt for r A) $\frac{d}{t}$ B) r = dt C) r = d - t D) $\frac{t}{r} = \frac{t}{d}$ 193) I = Prt for P A) P = r - It B) $\frac{r-I}{P} = \frac{r-I}{1+t}$ C) $\frac{r-1}{It}$ D) $\frac{I}{r} = \frac{1}{rt}$ 193) $\frac{1}{P} = \frac{1}{r} + \frac{1}{r} + \frac{1}{r} = \frac{1}{r}$ 194) $A = \frac{1}{2} bh for b$ 194) | | | | | 100) |
| A) 50°F B) 23.4°F C) -12.2°F D) -14°F 191) Use the formula C = $\frac{5}{9}$ (F - 32) to convert 311°F to degrees Celsius. A) 140.8°C B) 190.6°C C) 155°C D) 591.8°C ve the formula for the specified variable. 192) d = rt for r A) $\frac{d}{t}$ B) r = dt C) r = d - t D) $\frac{t}{r} = \frac{t}{d}$ 193) I = Prt for P A) P = r - It B) $\frac{r-1}{P} = \frac{r-1}{1+t}$ C) $\frac{r-1}{It}$ D) $\frac{1}{r} = \frac{1}{rt}$ 193) $\frac{1}{P} = \frac{1}{r} + \frac{1}{1+t}$ D) $\frac{1}{r} = \frac{1}{rt}$ 194) $\frac{1}{A} = \frac{1}{2} bh for b$ 194) | 190) <u>-</u> | | | | 190) |
| 191) $I = Prt for P = r - It B = \frac{r - I}{1 + t} C = \frac{r - 1}{It} D = \frac{r - 1}{It} D = \frac{r - 1}{It}$ 191) 191) 191) 191) 191) 191) 191) 191) 191) 191) 191) 191) 191) 191) 191) 191) 192) 192) 192) 192) 192) 192) 192) 192) 192) 192) 192) 193) 193) 193) 193) 193) 193) 193) 193) 193) 193) 194) 194) 194) 195) | Use the formula $F =$ | C + 32 to convert 10°C t | o degrees Fahrenheit. | D) 140E | |
| Use the formula $C = (F \cdot 32)$ to convert 311°F to degrees Celsius. A) 140.8°C B) 190.6°C C) 155°C D) 591.8°C we the formula for the specified variable. 192) $d = rt$ for r A) $\frac{d}{t}$ B) $r = dt$ C) $r = d \cdot t$ D) $\frac{t}{r} = \frac{t}{d}$ 193) I = Prt for P A) P = r \cdot It B) $\frac{r-I}{1+t}$ C) $\frac{r-1}{It}$ D) $\frac{I}{rt}$ 193) P = $\frac{1}{rt}$ 194) $A = \frac{1}{2}bh$ for b 194) $A = \frac{1}{2}bh$ for b | A) 50°F | B) 23.4°F | C) -12.2°F | D) -14°F | |
| Use the formula $C = (F \cdot 32)$ to convert $311^{\circ}F$ to degrees Celsius. A) $140.8^{\circ}C$ B) $190.6^{\circ}C$ C) $155^{\circ}C$ D) $591.8^{\circ}C$ we the formula for the specified variable. 192) d = rt for r A) $\frac{d}{t}$ B) $r = dt$ C) $r = d \cdot t$ D) $\frac{t}{r = \frac{t}{d}}$ $193)$ I = Prt for P A) P = r \cdot It B) $\frac{r - I}{1 + t}$ C) $\frac{r - 1}{It}$ D) $\frac{I}{rt}$ $P = \frac{193}{rt}$ $P = \frac$ | 191) | 5 | | | 191) |
| we the formula for the specified variable. $192) d = rt \text{for } r 192)$ $A) \frac{d}{t} B) r = dt C) r = d - t D) \frac{t}{r} = \frac{t}{d}$ $193) I = Prt \text{for } P 193)$ $A) P = r - It B) \frac{r - I}{1 + t} C) \frac{r - 1}{It} D) \frac{I}{rt} 193)$ $P = \frac{1}{rt}$ $194) A = \frac{1}{2}bh \text{for } b$ $194)$ | Use the formula C = $\frac{c}{c}$ |) (F - 32) to convert 311°I | F to degrees Celsius. | | |
| $192) d = rt \text{for } r 192)$ $A) \frac{d}{t} B) r = dt C) r = d - t D) \frac{t}{r} = \frac{t}{d} 192)$ $193) I = Prt \text{for } P B) \frac{r - I}{1 + t} C) r = \frac{r - 1}{1t} D) \frac{I}{rt} 193)$ $P = \frac{194)}{r} \frac{1}{2}bh \text{for } b 194)$ | A) 140.8°C | B) 190.6°C | C) 155°C | D) 591.8°C | |
| $192) d = rt \text{for } r 192)$ $A) \frac{d}{t} B) r = dt C) r = d - t D) \frac{t}{r} = \frac{t}{d} 192)$ $193) I = Prt \text{for } P B) \frac{r - I}{1 + t} C) r = \frac{r - 1}{1t} D) \frac{I}{rt} 193)$ $P = \frac{194)}{r} \frac{1}{2}bh \text{for } b 194)$ | ve the formula for the specif | fied variable. | | | |
| A) $\frac{d}{r} = \frac{d}{t}$ B) $r = dt$ C) $r = d - t$ D) $\frac{t}{r} = \frac{d}{dt}$ 193) $I = Prt$ for P A) $P = r - It$ B) $\frac{r - I}{1 + t}$ C) $\frac{r - 1}{It}$ D) $\frac{I}{rt}$ P = $\frac{193}{rt}$ 193) A = $\frac{1}{2}bh$ for b 194) $A = \frac{1}{2}bh$ for b | _ | | | | 192) |
| 193) I = Prt for P A) P = r - It B) $P = \frac{r - I}{1 + t}$ C) $\frac{r - 1}{It}$ D) $\frac{I}{rt}$ P = $\frac{193}{rt}$ 194) A = $\frac{1}{2}$ bh for b | | B) $\mathbf{r} = \mathbf{d}\mathbf{t}$ | C) r = d - t | D) <u>t</u> | |
| 193) I = Prt for P A) P = r - It B) $P = \frac{r - I}{1 + t}$ C) $\frac{r - 1}{It}$ D) $\frac{I}{rt}$ P = $\frac{193}{rt}$ 194) A = $\frac{1}{2}$ bh for b | $\mathbf{r} = \mathbf{t}$ | | | $r = \overline{d}$ | |
| A) $P = r - It$ $P = \frac{r - I}{1 + t}$ $P = \frac{r - 1}{It}$ $P = \frac{r - 1}{It}$ $P = \frac{r - 1}{It}$ $P = \frac{1}{rt}$ 194) $A = \frac{1}{2}bh$ for b 194) | | | | | 100 |
| 194) $A = \frac{1}{2}bh$ for b 194) | | D) * 1 | C) * 1 | | 193) |
| 194) $A = \frac{1}{2}bh$ for b 194) | A) $P = r - It$ | B) $\frac{1-1}{1+t}$ | C) $\frac{1-1}{It}$ | $D) \frac{1}{rt}$ | |
| | | $\mathbf{P} = 1 \mathbf{P}$ | $\mathbf{P} = \mathbf{r}$ | $\mathbf{P} = \mathbf{T}$ | |
| | 194) 1 | | | | 194) |
| | / | | | | |
| | $A = \frac{1}{2}bh$ for b | | | | |

| 195) $\frac{1}{3}$ | | | | 195) |
|--|--|-----------------------------|---------------------------------------|------|
| $V = {}^{3}Ah \text{for } A$ $A) \frac{3V}{h}$ $A = {}^{3}$ | B) $A = \frac{V}{3h}$ | C) $\frac{3h}{V}$ | D) $A = \frac{h}{3V}$ | |
| 196) $P = a + b + c$ for c A) $c = P - a - b$ | B) c = a + b - P | C) c = P + a - b | D) c = P + a + b | 196) |
| 197) P = 2L + 2W for L A) L = P - W | B) $\frac{P-W}{2}$ | C) $\frac{P-2W}{2}$ | D) L = P - 2W | 197) |
| 198) A = P + PRT A) $\frac{P - A}{PR}$ for T T = | B) $\frac{A}{R}$ | C) $\frac{PR}{T = A - P}$ | D) $\frac{A-P}{PR}$ | 198) |
| 199) $A = \frac{1}{2}h(B + b)$ for B | | | | 199) |
| $A = {}^{2}h(B + b) \text{ for } B$ $A) \qquad \underline{2A + bh}$ $B = h$ | B) $\frac{A - bh}{h}$ | C) $\frac{2A - bh}{h}$ | D) B = 2A - bh | |
| 200) $F = \frac{9}{5}C + 32$ for C | | | | 200) |
| $F = {}^{5}C + 32 \text{ for } C$ $A) \qquad \frac{9}{5}$ $C = {}^{5}(F - 32)$ | B) $\frac{F-32}{9}$ | C) $\frac{5}{F-32}$ | D) $C = \frac{\frac{5}{9}}{(F - 32)}$ | |
| 201) S = $2\pi rh + 2\pi r^2$ for h A) h = S - r | B) $\frac{S}{2\pi r} - 1$ | C) h = 2π(S - r) | D) $h = \frac{S - 2\pi r^2}{2\pi r}$ | 201) |
| Solve. | | | | |
| | ening for relaxation and h length of the garden is 6 nat is the width of the gar | meters and 28 meters of f | - | 202) |
| A) 168 m | B) 8 m | C) 4.67 m | D) 16 m | |
| 203) Ted drove to his grandpa 443 miles and it took him whole number) | arents' house for a holiday 15 hours. How fast was ' | | | 203) |
| A) 30 mph | B) 34 mph | C) 66 mph | D) 665 mph | |
| for hemming. If the table | cut the fabric circle with a has a diameter of 34 inch | a 4 inch larger diameter th | nan the table to allow | 204) |
| 3.14 for π. Round to 2 de A) 4534.16 sq in. | cimal places.) B) 1384.74 sq in. | C) 4069.44 sq in. | D) 1133.54 sq in. | |

| - | lollar.) | | D) #1500 | |
|---|---|-------------------------------|-----------------------|--------------|
| A) \$1274 | B) \$15 | C) \$127,400 | D) \$1538 | |
| 206) How long would it tak | e to drive 350 kilometers if | your average rate of spee | ed was 70 kilometers | 206) |
| per hour? | | | | |
| A) 42 hr | B) 245 hr | C) 6 hr | D) 5 hr | |
| 207) Nathan invested his \$6 Use the formula I = Prt | 000 poker winnings in a 5 to find the amount of inte | - | | 207) |
| A) \$7,500 | B) \$300 | C) \$1,500 | D) \$6,300 | |
| 208) You have a cylindrical many full cans of soup 3.14 as an approximatio | will fit into the pot if each | | - | 208) |
| A) 26 cans of soup | | C) 79 cans of soup | D) 80 cans of soup | |
| 209) | | $V = \frac{4}{3}\pi r^3.$ | | 209) |
| - | e with radius r is given by | the formula F | ind the volume of a | |
| - | eters. Use 3.14 for the valu | | | |
| A) 85.33 sq m | B) 66.99 sq m | C) 803.85 sq m | D) 267.95 sq m | |
| 210) Find the height of a rig 8 feet. | ht circular cylinder whose | volume is 576 π cubic fee | t and whose radius is | 210) |
| A) 72 ft | B) 9 ft | C) 8 ft | D) 81 ft | |
| . Round all amounts to one | e decimal place. | | | |
| 211) What number is 80% or | - | | | 211) |
| A) 80 | B) 8 | C) 800 | D) 8000 | |
| | 2010 | | | |
| 212) 93 is 10% of what num | Der? | | | 212) |
| 212) 93 is 10% of what num A) 930 | B) 93 | C) 9.3 | D) 9300 | 212) |
| A) 930 | B) 93 | C) 9.3 | D) 9300 | 212) 213) |
| A) 930 | B) 93 | C) 9.3 C) 20 | D) 9300 D) 200 | |
| A) 930 213) 40% of what number is A) 32 | B) 93 80? B) 2000 | | | |
| A) 930 213) 40% of what number is A) 32 | B) 93 80? B) 2000 | | | 213) |
| A) 930 213) 40% of what number is A) 32 214) 3 is what percent of 123 A) 2.5% | B) 93 80? B) 2000 B) 400% | C) 20 | D) 200 | 213) |
| 213) 40% of what number is A) 32 214) 3 is what percent of 123 | B) 93 80? B) 2000 B) 400% | C) 20 | D) 200 | 21 21 |

The circle graph below shows the number of pizzas consumed by college students in a typical month. Use the graph to answer the question.

| 5-6, 189 More than 7, 5% 0, 2% | 3-4 34% 1-2 41% | | | |
|--|--|---|--|------------|
| 216) What percent of college A) 34% | students consume more B) 2% | than 7 pizzas in a typical C) 5% | month? D) 18% | 216) |
| 217) If State University has ap consume 5-6 pizzas in a | 1 5 | lents, about how many w | rould you expect to | 217) |
| A) 9520 students | B) 504 students | C) 5040 students | D) 952 students | |
| if necessary.) | shop went up 30% in 5 y mber of ice cream cones | years. If 37,000 ice cream sold 5 years ago. (Round | cones were sold in the to the nearest integer, | e. 218) |
| A) 25,900 ice cream co C) 28,462 ice cream co | | B) 11,100 ice cream c D) 123,333 ice cream | | |
| 219) Attendance this year at t year's homecoming footh to the nearest integer, if r A) 681,600 people | oall game attendance wa | game is 142% of what it s 48,000, what is this year C) 338 people | - | 219) |
| 220) Of the 150 students in an percent of the algebra stupercent, if necessary.) | 0 | received an F on the mid the exam? (Round to the r | | 220) |
| A) 6.7% | B) 150% | C) 0.7% | D) 1500% | |
| 221) 8% of students at a unive about how many studen A) 56,000 students | 2 | If 7000 students are enro C) 56 students | lled at the university, D) 560 students | 221) |
| 222) The population of a town population 5 years ago. I number if necessary. | 2 | s represents an increase c ne town 5 years ago. Rour | | 222) |
| A) 19,444 | B) 43,750 | C) 7000 | D) 28,000 | |
| 223) Students at Maple Schoo | | | nulate $$200^{\circ}$ for a club | 223) |
| trip. What percent of the A) 90% | ir goal has been reached B) 0.111% | ? C) 9% | D) 11.1% | |
| 224) Jeans are on sale at the lo | ocal department store for | 25% off. If the jeans orig | inally cost \$43, find the | 224) |

sale price.

| A) \$32.25 | B) \$10.75 | C) \$41.93 | D) \$53.75 | |
|--|--|---|---------------------------|-----------|
| 225) The local clothing stor the selling price of a pa A) \$202.00 | · · | at it pays to the clothing m much did the clothing sto C) \$67.33 | 0 | 225) |
| | | | , | 22() |
| 226) A store is advertising regularly sells for \$27 | | ing in the store. Find the d | liscount of a watch that | 226) |
| A) \$9.45 | B) \$94.50 | C) \$175.50 | D) \$260.55 | |
| 227) A store is advertising regularly sells for ^{\$30} | | ing in the store. Find the d | liscount of a sofa that | 227) |
| A) \$2940.00 | B) \$600.00 | C) \$60.00 | D) \$2400.00 | |
| 228) A store is advertising a released DVD collector | a ^{25%} off sale on all ne ⁻ rs set that regularly sell | | sale price of a newly | 228) |
| A) \$39.98 | B) \$10.25 | C) \$1.03 | D) \$30.75 | |
| 229) An automobile dealers the car was \$33,600.00, | | e price of a used sports ca | r by 13%. If the price of | 229) |
| A) \$4368.00 | B) \$436.80 | C) \$29,232.00 | D) \$33,163.20 | |
| 230) A store is advertising regularly sells for ^{\$24} | | ing in the store. Find the s | ale price of a watch that | 230) |
| A) \$2292.00 | B) \$10.80 | C) \$108.00 | D) \$132.00 | |
| 231) Due to a lack of fundir vear to 5000 this vear. | ng, the number of stude Find the percent decrea | , , | e went from 9000 last | 231) |
| A) 80% | B) 55.6% | C) 180% | D) 44.4% | |
| 232) A company increased increase in employees | 1 | oyees from 540 to 575. Wha | at was the percent | 232) |
| A) 51.6% | B) 6.1% | C) 6.5% | D) 93.9% | |
| 233) The number of video s decrease. | tores in a region recent | y decreased from 102 to 82 | 2. Find the percent | 233) |
| A) 80.4% | B) 19.6% | C) 24.4% | D) 410% | |
| 234) Ming got a 11% raise i did she make last year | | ear. This year she is earnin | g \$97,680. How much | 234) |
| A) \$88,000 | B) \$8880 | C) \$9680 | D) \$1,074,480 | |
| 235) Because of budget cuth \$58,000 before the pay | oacks, MaryAnn was re cut, find her salary afte | | rut. If she earned | 235) |
| A) \$57,936.20 | B) \$57,362 | C) \$51,620 | D) \$5162 | |
| 236) How much pure acid s 80% acid solution? | should be mixed with 2 | gallons of a 50% acid solu | tion in order to get an | 236) |
| A) 1 gal | B) 8 gal | C) 3 gal | D) 5 gal | |
| 237) The owners of a candy | store want to sell, for \$ | 6 per pound, a mixture of | chocolate-covered | raisi ns, |

| which usually sells for \$3 per pound, and chocolate -covered macada mia nuts, which usually sells for \$8 per pound. They have a 70-pound barrel of the raisins. How many pounds of the nuts should they mix with the barrel of raisins so that they hit their target value of \$6 per | | | | | |
|--|---|--------------------------|---|-------------------|------|
| - | | | | | |
| 238) | A) 98 lb A chemist needs 110 millil Find how many milliliters | | - | | 238) |
| | A) 20 ml of 76%; 90 ml o C) 100 ml of 76%; 10 ml | of 98% | B) 90 ml of 76%; 20 ml o D) 10 ml of 76%; 100 ml | of 98% | |
| 239) | The manager of a coffee sh that sells for \$14 per pound mixture that will sell for \$8 A) 45 pounds | d. The manager wishes to | mix 30 pounds of the \$14 | 4 coffee to get a | 239) |

240) At a gourmet nut shop, nuts are sold in bulk. Cashews sell for \$1.40 per pound and macadamia nuts sell

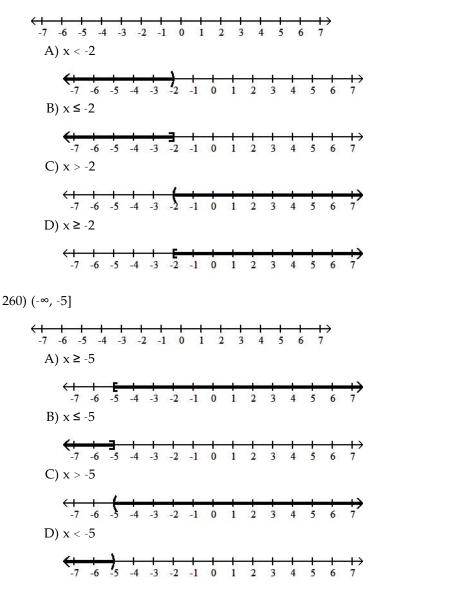
| for ^{\$8.55} | 240) | | | | |
|-----------------------|--|---|--|--|------|
| per | | | | | _ |
| pound. | | | | | |
| Lee | | | | | |
| wishes to | | | | | |
| purchase | | | | | |
| 5 pounds | | | | | |
| of mixed | | | | | |
| nuts by | | | | | |
| mixing | | | | | |
| 3.5 | | | | | |
| pounds | | | | | |
| of | | | | | |
| cashews | | | | | |
| and 1.5 | | | | | |
| pounds | | | | | |
| of | | | | | |
| macada | | | | | |
| mia nuts. What | | | | | |
| will be | | | | | |
| the price | | | | | |
| per | | | | | |
| pound of | | | | | |
| the | | | | | |
| mixture? | | | | | |
| | A) \$3.55 | B) \$32.03 | C) \$6.41 | D) \$17.73 | |
| | | nake of car needs to conta 20% antifreeze. How mar reeze to get the desired str | ny liters of this solution m | | 241) |
| | A) 15 L | B) 10.0 L | C) 12 L | D) 7.5 L | |
| | | | | | |
| Solve. | | | | | |
| | A motorcycle traveling a | - | | - | 242) |
| | | rt. How far from the start | | nicles? | |
| | A) $\frac{1}{7^2}$ mi | B) $\frac{1}{56^4}$ mi | C) 225 mi | D) $\frac{1}{2}$ | |
| | 7^2 mi | 56^4 mi | | hicles? D) $\frac{1}{2}$ 4 mi | |
| | Linda and Dave leave sin Linda bikes at 7 miles per are 30 miles apart from e | hour and Dave bikes at 8 | ••••••••••••••••••••••••••••••••••••••• | n opposite directions. ng will it be until they | 243) |
| | A) 30 hr | B) 2 hr | C) 1 | D) 15 | |
| | |) | -/ | 28 | |
| | , | | 2 hr | 20 hr | |
| | , | | C) $\frac{1}{2}$ hr | D) $\frac{15}{28}$ hr | |
| | Jeff starts driving at 75 m per hour. They drive in o | pposite directions, and La | ne point that Lauren start nuren has a half-hour hea | s driving at 70 miles | 244) |
| | Jeff starts driving at 75 m per hour. They drive in o will they be able to talk o | pposite directions, and La n their cell phones that ha | ne point that Lauren start nuren has a half-hour hea nve a 330-mile range? | s driving at 70 miles d start. How long | 244) |
| | Jeff starts driving at 75 m per hour. They drive in o will they be able to talk o A) $\frac{1}{29}$ | pposite directions, and La n their cell phones that ha B) $\frac{79}{290}$ | the point that Lauren start nuren has a half-hour head twe a 330-mile range? C) $\frac{15}{20}$ | s driving at 70 miles d start. How long | 244) |
| | Jeff starts driving at 75 m per hour. They drive in o will they be able to talk o | pposite directions, and La | ne point that Lauren start nuren has a half-hour hea | s driving at 70 miles | 244) |

| | | | m lake paddling toward e es at 7 miles per hour. Hov | | 245) |
|-----|---|----------------------------------|--|------------------------------------|------|
| | A) 16 hr | B) 9 hr | C) $\frac{7}{1^8}$ hr | D) $\frac{5}{2^{11}}$ hr | |
| | the same route but di California if the roun | 1 | er hour to California. On t ow many miles did they d | rive on the way to | 246) |
| | A) $\frac{5}{5^{13}}$ mi | B) 4200 mi | C) $\frac{2}{10}$ | D) $\frac{1}{12}$ | |
| | 5^{13} mi | | C) $\frac{2}{646^{13}}$ mi | 323 ¹³ mi | |
| | hiked 37 miles, spend speed on level groun | ling 2 hours on level grou d. | faster than he can on uph Ind and 5 hours on uphill t | errain. Find his average | 247) |
| | A) <u>2</u> | B) <u>6</u> | C) <u>3</u> | D) <u>3</u> | |
| | 5^7 mph | B) $\frac{6}{7^7}$ mph | C) $\frac{3}{4^7}$ mph | D) $\frac{3}{7^7}$ mph | |
| Sol | ve the problem. | | | | |
| | - | on of nickels and dimes to | deposit in the bank. She h | as five fewer nickels | 248) |
| | | | many dimes did she depo | | , |
| | A) 100 dimes | B) 110 dimes | C) 105 dimes | D) 205 dimes | |
| | 249) A convenience store | employee is counting \$10 | and \$20 bills. If there are s | ix times as many | 249) |
| | | | 2400, find the number of ea | | |
| | A) 180 \$20 bills; 6 \$ | | B) 30 \$20 bills; 6 \$10 | | |
| | C) 30 \$20 bills; 180 | | D) 180 \$20 bills; 30 \$ | | |
| | 250) Devon purchased tick | kets to an air show for 4 a | dults and 2 children. The t | otal cost was $\frac{68}{5}$. The | 250) |
| | | ; was $^{\$5}$ less than the cos | t of an adult's ticket. Find | | |
| | A) adult's ticket: \$1 | 15; child's ticket: \$10 | B) adult's ticket: \$13 | 3; child's ticket: \$8 | |
| | C) adult's ticket: \$2 | 12; child's ticket: \$7 | D) adult's ticket: \$14 | 4; child's ticket: \$9 | |
| | | • | z ordered 120 pieces of jew | - | 251) |
| | | | at \$15 each. She wrote a cl | 1 2 | |
| | - | - | necklaces did Rosaria pui | | |
| | A) 45 bracelets and C) 60 bracelets and | | B) 50 bracelets and D) 55 bracelets and | | |
| | 252) Jon throws all his nic | kels and dimes in a jar at | home each day. He counte | d all his coins one day | 252) |
| | • | d collected \$29.00. If there | e were three times as many | | , |
| | A) 116 dimes; 348 | | B) 348 dimes; 345 n | ickels | |
| | C) 348 dimes; 116 r | | D) 116 dimes; 3 nich | | |
| Sol | ve. | | | | |
| | interest, and the rem | ainder in a mutual fund th | ertificate of deposit that pa nat paid 11% annual simpl Kevin invest in the mutua C) \$5000 | e interest. If his total | 253) |
| | | | | | |

| | 254) How can \$56,000 be invested, part at 4% annual simple interest and the remainder at 10% annual simple interest, so that the interest earned by the two accounts is equal at the end of the year? A) \$30,000 invested at 4%; \$26,000 invested at 10% B) \$16,000 invested at 4%; \$40,000 invested at 10% C) \$26,000 invested at 4%; \$30,000 invested at 10% | | | | | | | |
|------|--|--|--------------|----------------------------|------|--|--|--|
| 255) | , . | l at 4%; \$16,000 invested m of money at 3% annua | | ested three times that sum | 255) | | | |
| | 255) Melissa invested a sum of money at 3% annual simple interest. She invested three times that sum at 5% annual simple interest. If her total yearly interest from both investments was \$3600, how much was invested at 3%? | | | | | | | |
| | A) \$45,000 | B) \$15,000 | C) \$135,000 | D) \$20,000 | | | | |
| , | 256) If \$2000 is invested at 10% simple annual interest, how much should be invested at 12% annual simple interest so that the total yearly income from both investments is \$5000? | | | | | | | |
| | A) \$47,600 | B) \$4000 | C) \$40,000 | D) \$4760 | | | | |

Graph the set of numbers given in interval notation. Then write an inequality statement in x describing the numbers graphed. $257) (-6, \infty)$ 257) ____

| 257) (-6, ∞) | 257) |
|---|------|
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| (+ + + + + + + + + + + + + + + + + + + | |
| -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 | |
| | |
| 258) [1, ∞) | 258) |
| | 258) |
| 258) $[1, \infty)$ (+ + + + + + + + + + + + + + + + + + + | 258) |
| 258) $[1, \infty)$ (1, -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, -7, -7, -7, -7, -7, -7, -7, -7, -7, | 258) |
| 258) $[1, \infty)$ (++++++++++++++++++++++++++++++++++++ | 258) |

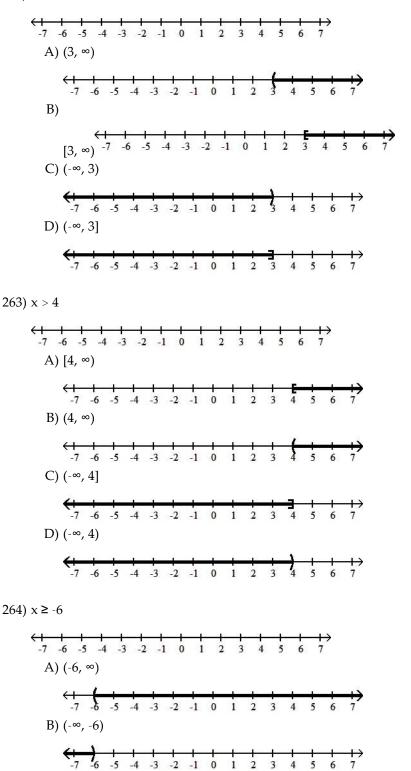


Graph the inequality on a number line. Then write the solution in interval notation. 261) x < 2

260) _____

C) [-6, ∞)

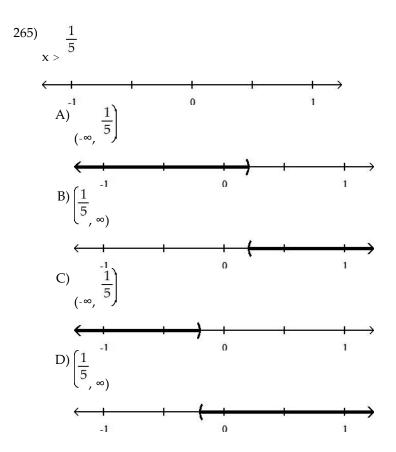
D) (-∞, -6]

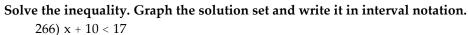


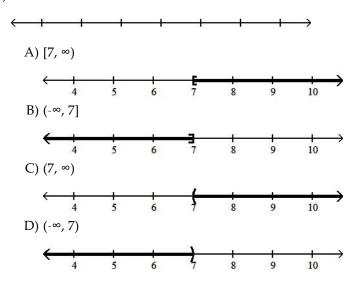
-7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7

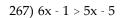
-7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7

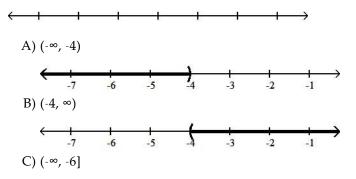
264) _____





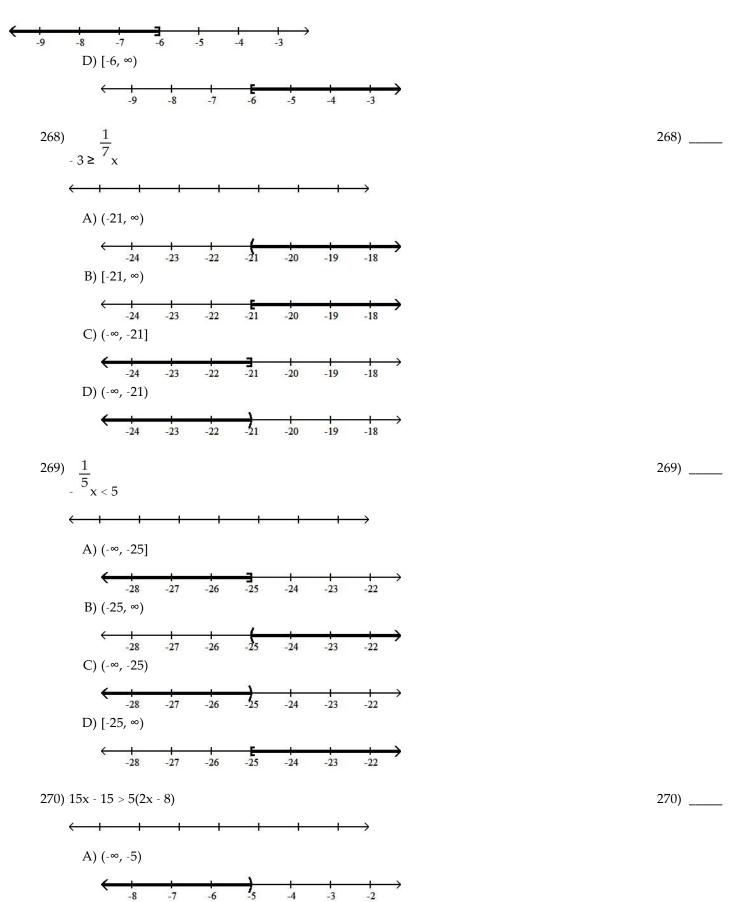




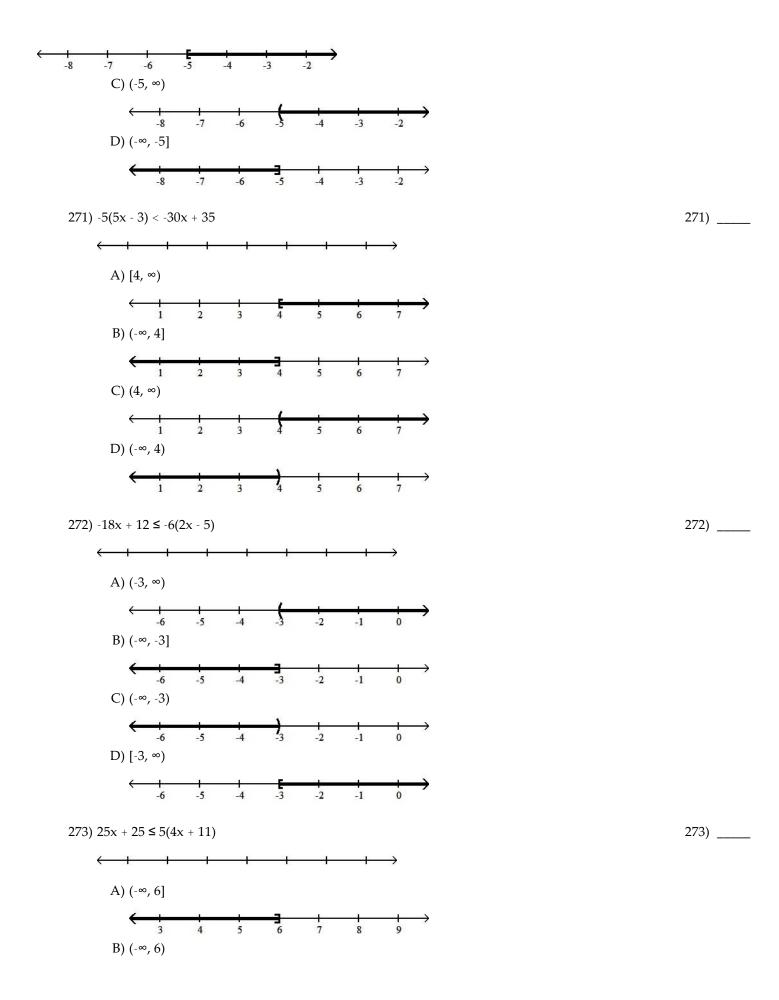


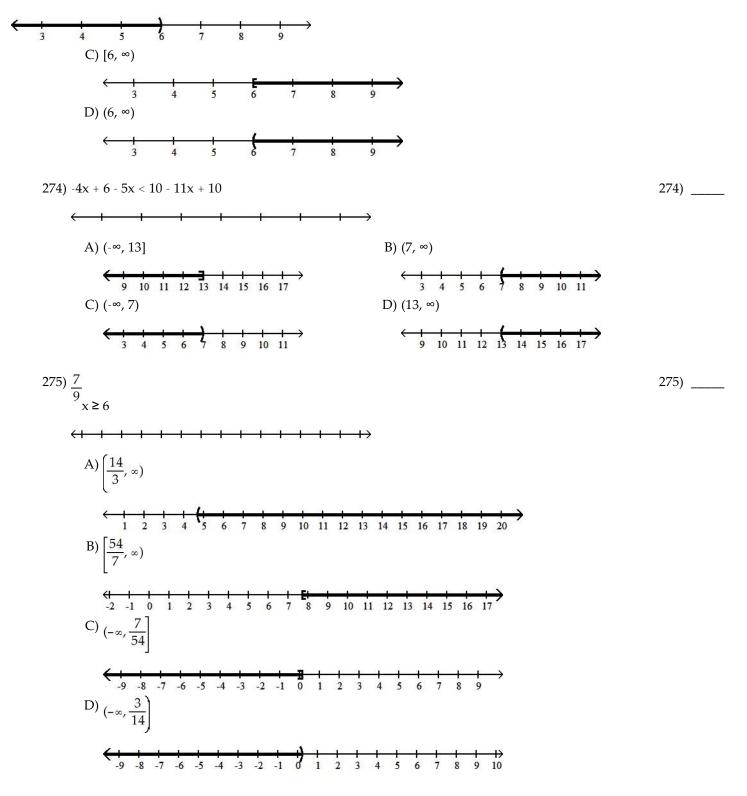
267) _____

266) ____

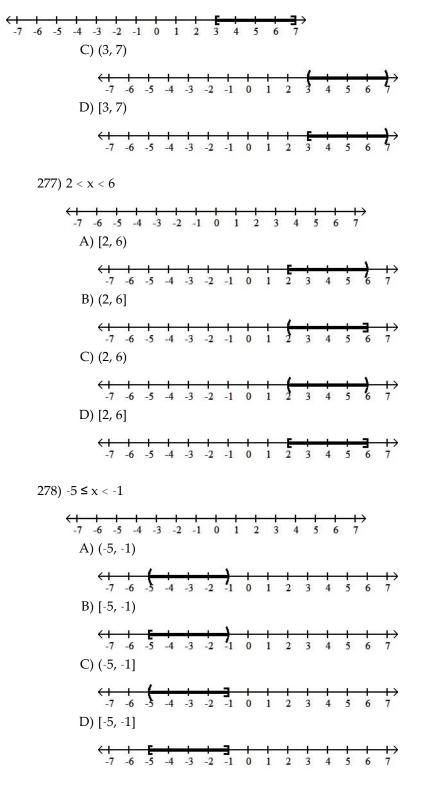


B) [-5, ∞)





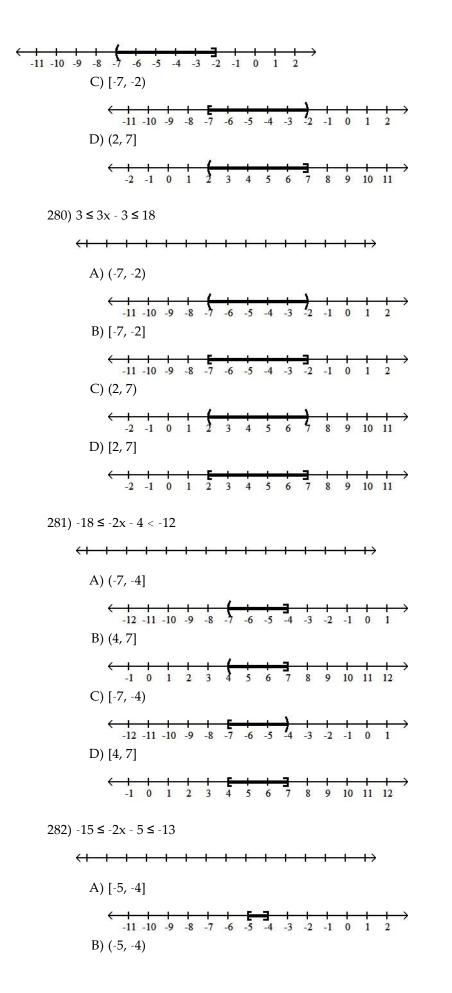
Graph the inequality on a number line. Then write the solution in interval notation. 276) $3 \le x \le 7$



Solve the inequality. Graph the solution set and write it in interval notation. 279) $4 < 2x \le 14$

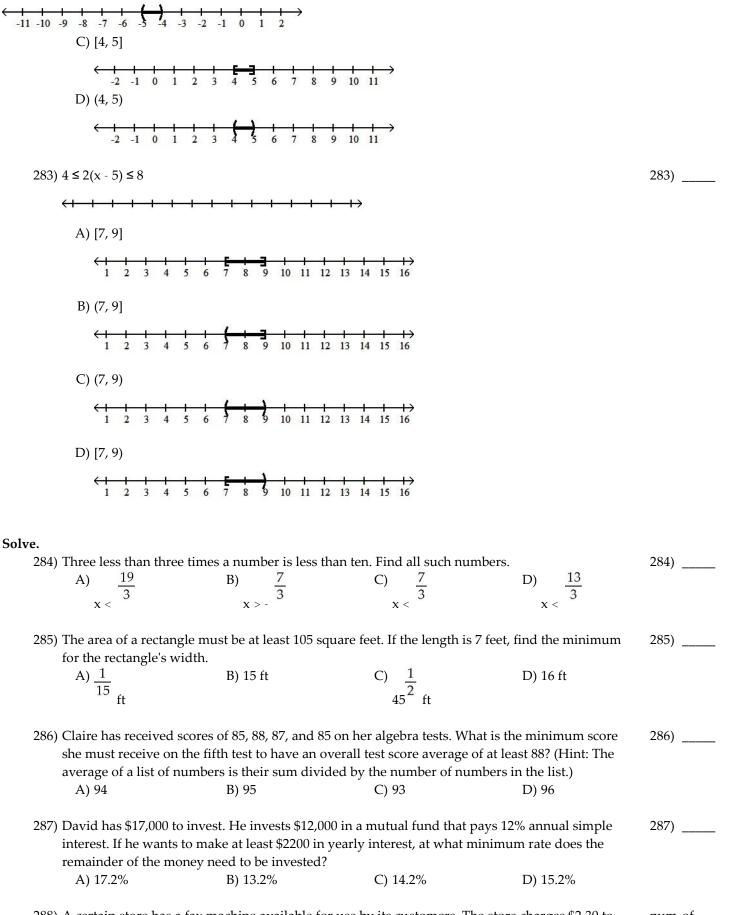
277) _____

278) _____



280) _____

281) _____



²⁸⁸⁾ A certain store has a fax machine available for use by its customers. The store charges \$2.30 to num of send the first page and \$0.40 for each subsequent page. Use an inequality to find the maximum ber pages

| A) at most 17 pages | B) at most 12 pages |
|---------------------|---------------------|
| C) at most 57 pages | D) at most 3 pages |

289) An archer has \$178 to spend on a new archery set. A certain set containing a bow and three arrows costs \$52. With the purchase of this set, he can purchase additional arrows for \$9 per arrow. Use an inequality to find the maximum number of arrows he could obtain, including those with the set, for his \$178.

289) __

| A) <u>89</u> | B) at most 14 arrows |
|------------------------------|-----------------------------|
| at most ²⁶ arrows | |
| C) at most 17 arrows | D) $\frac{178}{2}$ |
| | at most ⁹ arrows |

290) A certain vehicle has a weight limit for all passengers and cargo of 1262 pounds. The four passengers in the vehicle weigh an average of 180 pounds. Use an inequality to find the maximum weight of the cargo that the vehicle can handle.
 A) at most 542 lb

| | 631 | |
|---------|-----|----|
| at most | 90 | lb |

291) Professor Chang will give a student in her algebra class an A if his or her final score is at least 93, 291) ________ a B if the score is between 84 and 92, inclusive, and a C if the score is between 75 and 83, inclusive. Any student with a score between 66 and 74, inclusive, will receive a D, and anyone with a score at or below 65 will fail with a grade of an F. Letting x represent a student's grade, write a series of five inequalities corresponding to the possible grades given in the class

| A) x ≥ 93 | А | B) x > 93 | А | C) x ≥ 93 | А | D) x ≥ 93 | А |
|-------------------|---|---------------------|---|-----------------|---|---------------------|---|
| $84 \ge x \ge 92$ | В | $84 \le x \le 92$ | В | $84 \le x < 92$ | В | $84 \le x \le 92$ | В |
| $75 \ge x \ge 83$ | С | $75 \le x \le 83$ | С | $75 \le x < 83$ | С | $75 \le x \le 83$ | С |
| $66 \ge x \ge 74$ | D | $66 \leq x \leq 74$ | D | $66 \le x < 74$ | D | $66 \leq x \leq 74$ | D |
| x ≤ 65 | F | x < 65 | F | x ≤ 65 | F | x ≤ 65 | F |
| | | | | | | | |

| A) | 64 | B) <u>64</u> | C) <u>9</u> | D) <u>20</u> | 64 |
|-------|---------|----------------------------|-------------------------|--------------|----|
| - | 3 | 3 | 4 | 3 | 3 |
| - 4 < | < x < 5 | <pre>< x < - 4</pre> | - ⁻ < x < 12 | < x | < |

Fill in the blank with one of the words or phrases listed below.

| like termsnumerical coefficientequivalent equationsformulareversedunlike termsthe sameno solution | | linear equation in one variable linear inequality in one variable compound inequalities all real numbers | |
|---|----------------------------|---|------|
| 293) Terms with the | e same variables raised to | o exactly the same powers are called | 293) |
| A) unlike ter | rms | B) equivalent equations | |
| C) compour | nd inequalities | D) like terms | |
| 294) If terms are no | t like terms, they are — | | 294) |
| A) like terms | | B) unlike terms | |
| C) compour | nd inequalities | D) equivalent equations | |

| $^{295)}$ A(n) can b | | | · | 295) _ |
|--|---|---------------------------|---------------------------|------------|
| A) linear inequality in | n one variable | B) linear equation | | |
| C) formula | | D) numerical coef | ncient | |
| ²⁹⁶⁾ A(n) can b | e written in the form | ax + b < c (or $> < >$) | | 296) |
| A) linear inequality in | n one variable | B) formula | | |
| C) numerical coefficie | | D) linear equation | n in one variable | |
| | | 2) mear equator | | |
| 297) Inequalities containing | two inequality symbo | ls are called | | 297) _ |
| A) like terms | | B) compound ine | qualities | |
| C) linear inequality in | n one variable | D) equivalent equ | ations | |
| ²⁹⁸⁾ An equation that descri | has a linear relations | hin among quantities is a | | 298) |
| A) numerical coefficie | bes a known relations | B) linear inequali | | / - |
| C) linear equation in | | D) formula | ty in one variable | |
| C) mear equation m | one variable | D) Iomula | | |
| ²⁹⁹⁾ The of a te | erm is its numerical fa | ctor. | | 299) _ |
| A) like terms | | B) numerical coef | ficient | |
| C) compound inequa | lities | D) formula | | |
| 300) Equations that have the | come colution and col | lad | | 300) |
| ³⁰⁰⁾ Equations that have the A) numerical coefficie | same solution are cal | B) equivalent equ | ations | -/- |
| C) like terms | ent | D) compound ine | | |
| C) like terilis | | D) compound me | quanties | |
| 301) The solution(s) to the equation | The quation $x + 5 = x + 5$ is | /are | | 301) |
| A) no solution | • | B) like terms | | |
| C) the same | | D) all real number | rs | |
| $^{302)}$ The solution(s) to the ec | x + 5 - x + 4 is | laro | | 302) |
| A) unlike terms | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | B) all real number | re | , <u>-</u> |
| C) reversed | | D) no solution | 15 | |
| | | | | |
| 303) If both sides of an inequ | | | sitive number, the | 303) |
| direction of the inequali | ity symbol is | | | |
| A) all real numbers | | B) the same | | |
| C) no solution | | D) reversed | | |
| 304) If both sides of an inequ | ality are multiplied b | y the same negative numb | per, the direction of the | 304) |
| inequality symbol is — | | | | |
| A) the same | | B) all real number | rs | |
| C) no solution | | D) reversed | | |
| olify the expression. | | | | |
| 305) 7y + 8 - 2y + 9 | | | | 305) |
| A) 9y + 17 | B) 22y | C) 5y + 17 | D) 5y - 1 | / - |
| | | · • | - | |
| $20() 2 2 \dots = 1 + 4 2 \dots = 7 4$ | | | | 306) |
| $306) \ 2.3x + 5.1 + 4.2x - 7.4$ | | | | |

| | 307) 2(x - 3) - 4(3x - 6) A) -10x + 18 | B) -14x + 30 | C) -10x - 9 | D) 10x + 18 | 307) |
|----|---|---|------------------------------------|-------------------|------|
| | 308) 8 + 3(5y - 4) A) 15y - 20 | B) 15y - 4 | C) 15y + 32 | D) 15y + 4 | 308) |
| So | lve the equation. $309) \frac{1}{5} \\ - x = -8$ | | | | 309) |
| | - x = -8 A) 40 | B) -14 | C) -13 | D) 1 | |
| | 310) 5(2n - 2) = 9(n + 4) A) 26 | B) -26 | C) 31 | D) 46 | 310) |
| | 311) 7y - 6 + y = -(y + 9y) A) 0 | B) $\frac{1}{3}$ | C) $\frac{1}{3}$ | D) no solution | 311) |
| | 312) - 7z + 7 + 5z = -3z + 12 A) -7 | B) 5 | C) 12 | D) -12 | 312) |
| | 313) $\frac{4(x-4)}{5}$ | | | | 313) |
| | = x - 7 A) 39 | B) 19 | C) -9 | D) -19 | |
| | 314) $\frac{1}{2} + \frac{15}{2} = x - 6$ | | | | 314) |
| | A) 1 $= x + 6$ | B) 14 | C) -7 | D) 7 | |
| | 315) -0.3(x - 3) + x = 0.5(9 - x) A) 3 | B) 2 | C) 4.5 | D) 18 | 315) |
| | 316) $-3(4x + 2) - 2 = -4(x + 1) + 4$ A) $\frac{1}{11}$ | $ \begin{array}{c} 3x \\ B) \underline{\frac{4}{13}} \end{array} $ | C) $\frac{4}{11}$ | D) $\frac{4}{11}$ | 316) |
| | 317) - 3(x - 5) = x + 7 - 4x A) - | B) 0 | C) <a> | D) no solution | 317) |
| | 318) Find the value of x if y = - A) x = -36 | 21, m = 2 and b = -3 in the B) x = 36 | e formula y = mx + b. C) x = -9 | D) x = 9 | 318) |
| So | lve the equation for the indicate 319) I = Prt for t | d variable. | | | 319) |
| | $\begin{array}{c} A) \\ t = \end{array} \begin{array}{c} P-1 \\ Ir \\ Ir \end{array}$ | B) $t = \frac{P - I}{1 + r}$ | C) t = P - Ir | D) $\frac{I}{r}$ | |
| | 320) 2x - 3y = 13 for y A) | у | = | | 320) |
| | | | | | |

| B) | у | C) | у | D) | у |
|----|---------|----|---------|----|---------|
| | = | | = | | = |
| | 2x + 13 | | 2x + 13 | | 2x - 13 |
| | 3 | | -3 | | 3 |

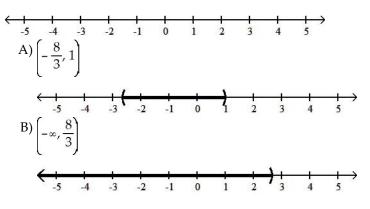
Solve the inequality. Graph the solution set and write it in interval notation.

321) 6x - 2 ≥ 5x - 8

 $\frac{2x-13}{-3}$

 \rightarrow A) (-10, ∞) -17 -16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 B) [-6, ∞) -13 -12 -11 -10 -9 -8 -7 -6 -2 -1 0 -5 -4 -3 C) (-∞, -6] -13 -12 -11 -10 -9 -8 -7 -3 -2 -1 0 1 -6 -5 -4 D) (-6, ∞) -6 -5 -4 -3 -2 -1 0 322) x + 4 > 3x - 4-9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 A) (-∞, 4) -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 $\begin{array}{c} 1 \\ 8 \\ 9 \end{array}$ 7 4 5 6 B) (4, ∞) -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 C) (-∞, -4) -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 D) (-4, ∞) -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8

323) -5 < 3x - 2 < 6

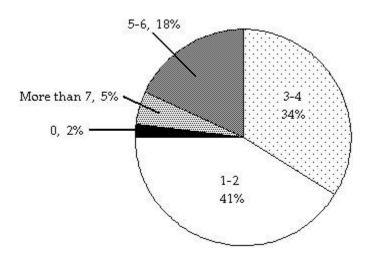


321) _____

322) _____

| C | C) (- 1, ∞) | | | | | | | | | | | | |
|-----------------|---|--------|--------|---------------|-------|----------------|--------|--------------|-----------------|-----------------|------------------------------------|---|--------------|
| | | | | 1 | L. | 21 | | | | | | | |
| E | $(-1,\frac{8}{3})^{-5}$ | -3 | -2 | -1 | 0 | i | 2 | 3 | 4 | 5 | | | |
| | -5 -4 | -3 | -2 | - | 0 | 1 | 2 |) 3 | 4 | 5 | > | | |
| 324) <u>3(2</u> | $\frac{(x-1)}{5} > 3$ | | | | | | | | | | | | 324) |
| | 5 -4 -3 $A \left(3, \infty\right)$ | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | | | | |
| E | $\begin{array}{c c} & & & \\ & & -5 & -4 \\ \hline & & & \\ 3) \left(-\infty, 3\right) \end{array}$ | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | • | | |
| C | $\underbrace{+}_{-5} \underbrace{+}_{-5} \underbrace{+}_{-4}$ | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | > | | |
| E | $\underbrace{+}_{-5} \underbrace{+}_{-4}$ | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | > | | |
| | -5 -4 | -5 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | | | |
| Solve. | | | | | | | | | | | | | |
| | umber incre A) 7 | ased | by th | ree- B) | | ths o | f the | num | | s 21. H C) 3 | Find the numbe | er. D) 12 | 325) |
| 326) The | house num | bers o | of tw | o adj | acen | t hor | nes a | re tw | 70 CO1 | nsecu | tive even num | bers. If their sum is | 326) |
| | , find the ho () 192, 194 | use n | umbe | | 191, | 193 | | | C | 2) 192 | 2, 384 | D) 193, 195 | |
| hav | • | e capa | acity, | in pa | arkin | ig spa | aces, | of th | eir o | igina | l parking gara | l parking garage will ge. If the sum of these | 327) |
| | x) 5 3 1 space C) 3 3 1 space | | - | | - | | _ | | | | 1 spaces, 8 6 2 1 spaces, 9 6 2 | - | |
| three | ee times the | origir | nal ar | noun ivest | nt in | anotł ts wa | ner st | tock 1 | that e ind o | arneo ut ho | | o return. She invested o return. If her total ovested at 3%? D) \$20,000 | 328) |
| oth | - | | - | les p | | our, ł | | | will i | 2 | them to be 31 | miles per hour and the 80 miles apart? D) 2.5 hr | 329) |
| The circle ere | nh holow cl | 0000 | tha • | 1 | or o | f niz | 726 6 | oner | mad | hy a | allaga studant | s in a typical month Use | the graph to |

The circle graph below shows the number of pizzas consumed by college students in a typical month. Use the graph to answer the question.



| 330) | 330) If State University has approximately 28,000 students, about how many would you expect to consume 5-6 pizzas in a typical month? | | | | 330) |
|---|---|------------------|-----------------|-----------------|------|
| | A) 9520 students | B) 5040 students | C) 504 students | D) 952 students | |
| Solve. Round to one decimal place when necessary. | | | | | |
| 331) The number 90 is what percent of 48? | | | | | 331) |
| | A) 1.9% | B) 53.3% | C) 187.5% | D) 18.8% | |
| 332) Due to a lack of funding, the number of students enrolled at City College went from 9000 last year to 3000 this year. Find the percent decrease in enrollment. | | | | | 332) |
| | A) 200% | B) 33.3% | C) 66.7% | D) 300% | |
| | | | | | |

1) C 2) C 3) C 4) A 5) C 6) D 7) A 8) B 9) B 10) B 11) A 12) A 13) B 14) A 15) D 16) B 17) A 18) D 19) C 20) B 21) B 22) B 23) D 24) D 25) C 26) C 27) A 28) B 29) B 30) D 31) A 32) C 33) A 34) A 35) B 36) B 37) D 38) C 39) D 40) B 41) D 42) A 43) D 44) B 45) B 46) C 47) A 48) D 49) C 50) D 51) B

52) A 53) D 54) C 55) C 56) A 57) C 58) C 59) D 60) A 61) B 62) D 63) B 64) C 65) D 66) A 67) A 68) B 69) A 70) B 71) A 72) B 73) C 74) D 75) D 76) B 77) A 78) A 79) D 80) C 81) D 82) D 83) A 84) C 85) B 86) B 87) B 88) D 89) B 90) A 91) C 92) A 93) D 94) B 95) C 96) C 97) A 98) A 99) A 100) C 101) B 102) B 103) A

104) A 105) C 106) B 107) B 108) A 109) B 110) D 111) D 112) A 113) B 114) A 115) A 116) B 117) A 118) D 119) B 120) D 121) C 122) C 123) C 124) B 125) C 126) C 127) A 128) C 129) D 130) B 131) B 132) D 133) A 134) D 135) A 136) C 137) C 138) B 139) A 140) D 141) C 142) D 143) A 144) D 145) D 146) B 147) B 148) C 149) A 150) C 151) A 152) A 153) A 154) A 155) D

156) A 157) A 158) B 159) C 160) D 161) D 162) A 163) B 164) C 165) A 166) C 167) A 168) D 169) D 170) A 171) D 172) C 173) C 174) A 175) A 176) A 177) B 178) A 179) A 180) C 181) C 182) B 183) A 184) A 185) A 186) C 187) B 188) D 189) B 190) A 191) C 192) A 193) D 194) A 195) A 196) A 197) C 198) D 199) C 200) D 201) D 202) B 203) A 204) D 205) D 206) D 207) C

208) C 209) D 210) B 211) A 212) A 213) D 214) D 215) C 216) C 217) C 218) C 219) B 220) C 221) D 222) A 223) D 224) A 225) C 226) B 227) B 228) D 229) C 230) D 231) D 232) C 233) B 234) A 235) C 236) C 237) D 238) B 239) C 240) A 241) D 242) C 243) B 244) A 245) D 246) D 247) D 248) C 249) C 250) B 251) B 252) A 253) D 254) D 255) D 256) C 257) C 258) A 259) A

260) B 261) B 262) D 263) B 264) C 265) B 266) D 267) B 268) C 269) B 270) C 271) D 272) D 273) A 274) C 275) B 276) B 277) C 278) B 279) D 280) D 281) B 282) C 283) A 284) D 285) B 286) B 287) D 288) B 289) C 290) A 291) D 292) A 293) D 294) B 295) B 296) A 297) B 298) D 299) B 300) B 301) D 302) D 303) B 304) D 305) C 306) D 307) A 308) B 309) A 310) D 311) C

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332) C