

Exam

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Evaluate.

1) 10^5 1) _____

- A) 1,000,000 B) 100,000 C) 500 D) 10,000

Answer: B

Explanation: A)
B)
C)
D)

2) 11^1 2) _____

- A) 11 B) 121 C) 1 D) 0

Answer: A

Explanation: A)
B)
C)
D)

Subtract.

3) $644 - 87$ 3) _____

- A) 457 B) 549 C) 557 D) 731

Answer: C

Explanation: A)
B)
C)
D)

Translate into an equation, and then solve the equation.

4) Four times what number is equal to eight? 4) _____

- A)
- $4 + x = 8; 2$
- B)
- $4x = 8; 4$
- C)
- $4x = 8; 3$
- D)
- $4x = 8; 2$

Answer: D

Explanation: A)
B)
C)
D)

Use the Mathematics Blueprint for Problem Solving to solve.

5) Anna owns 21 acres of land which she rents to a timber grower for \$2751 per acre per year. Her property taxes are \$989 per acre per year. How much profit does she make on the land each year? 5) _____

- A) \$78,540 B) \$58,760 C) \$37,002 D) \$56,782

Answer: C

Explanation: A)
B)
C)
D)

Write in exponent form.

6) $4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot n \cdot n \cdot n \cdot n$

A) $4^5 n^4$

B) $5^4 4^n$

C) $(4n)^9$

D) $4^4 n^5$

6) _____

Answer: A

Explanation: A)
B)
C)
D)

Solve the problem.

7) Round 25,585,333 to the nearest million.

A) 25,585,000

B) 25,600,000

C) 26,000,000

D) 25,000,000

7) _____

Answer: C

Explanation: A)
B)
C)
D)

Write in expanded notation.

8) 9352

A) $2000 + 500 + 30 + 9$

C) $900 + 50 + 3$

B) $9,352,000$

D) $9000 + 300 + 50 + 2$

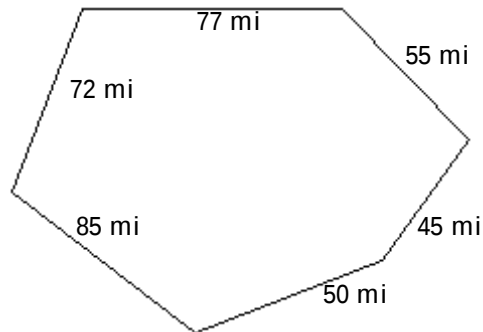
8) _____

Answer: D

Explanation: A)
B)
C)
D)

Find the perimeter of the figure.

9)



9) _____

A) 312 mi

B) 461 mi

C) 404 mi

D) 384 mi

Answer: D

Explanation: A)
B)
C)
D)

Solve the problem.

- 10) Chris and his friends went to the movies. They purchased 2 adult tickets, 4 student tickets and 4 child tickets. How much did they spend on movie tickets? 10) _____

Theater Ticket Prices	
Adult	- \$8
Student	- \$6
Child	- \$5

- A) \$40 B) \$52 C) \$54 D) \$60

Answer: D

Explanation: A)
B)
C)
D)

Translate using symbols, then evaluate.

- 11) Fifteen minus y, if y is equal to 1. 11) _____
A) $15 - y$; 16 B) $15 - y$; 14 C) $15 + y$; 16 D) $15 + y$; 14

Answer: B

Explanation: A)
B)
C)
D)

Use the commutative property of addition to rewrite the sum.

- 12) If $208 + 7689 = 7897$, then $7689 + 208 = ?$ 12) _____
A) 7689 B) 7898 C) 7897 D) 7481

Answer: C

Explanation: A)
B)
C)
D)

Provide an appropriate response.

- 13) The total population of a small town is 4038. Round this population figure to the nearest thousand. 13) _____
A) 4100 B) 3900 C) 4000 D) 5000

Answer: C

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

- 14) Forty-eight divided by a number 14) _____
A) $x \div 48$ B) $48 \div x$ C) $48 - x$ D) $48x$

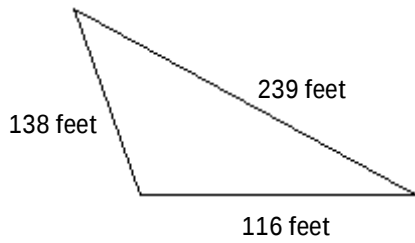
Answer: B

Explanation: A)
B)
C)
D)

Find the perimeter of the figure.

15)

15) _____



A) 377 feet

B) 493 feet

C) 28,101 feet

D) 483 feet

Answer: B

Explanation: A)
B)
C)
D)

Add.

16)

16) _____

$$\begin{array}{r} 33 \\ 93 \\ 9 \\ 44 \\ + 69 \\ \hline \end{array}$$

A) 329

B) 248

C) 258

D) 271

Answer: B

Explanation: A)
B)
C)
D)

Divide and check your answer.

17) $5 \overline{)6655}$

17) _____

A) 1329

B) 1331

C) 1331 R4

D) 1329 R1

Answer: B

Explanation: A)
B)
C)
D)

18) $9045 \div 46$

18) _____

A) 196

B) 199 R5

C) 199 R38

D) 196 R29

Answer: D

Explanation: A)
B)
C)
D)

Translate the symbols into words.

19) $15x$

- A) fifteen divided by a number
- C) fifteen minus a number

- B) fifteen times a number
- D) fifteen plus a number

19) _____

Answer: B

Explanation: A)
B)
C)
D)

Solve.

20) A case of candy bars has 4 layers of candy bars. In each layer are 7 rows with 15 candy bars in each row. Find how many candy bars are in a case.

20) _____

- A) 410 candy bars
- B) 419 candy bars
- C) 420 candy bars
- D) 430 candy bars

Answer: C

Explanation: A)
B)
C)
D)

21) A store sold 39 lamps on Monday, 19 lamps on Tuesday, and 27 lamps on Wednesday. How many lamps did the store sell in all?

21) _____

- A) 95 lamps
- B) 85 lamps
- C) 86 lamps
- D) 84 lamps

Answer: B

Explanation: A)
B)
C)
D)

Write the word name for the number.

22) Paul has the number 24,730,208 showing on his calculator display.

22) _____

- A) Twenty-four million, seven hundred thirty thousand, two hundred eight
- B) Twenty-four million, seven hundred three thousand, two hundred eight
- C) Twenty-four million, seventy-three thousand, two hundred eight
- D) Twenty-four million, seven hundred thirty thousand, two hundred eighty

Answer: A

Explanation: A)
B)
C)
D)

Use the commutative and/or associative property of addition and then simplify.

23) $(r + 9) + 3$

23) _____

- A) $12r$
- B) 12
- C) $9r + 3$
- D) $r + 12$

Answer: D

Explanation: A)
B)
C)
D)

Multiply.

24) $1309(307)$

A) 48,433

B) 400,554

C) 401,863

D) 13,090

24) _____

Answer: C

Explanation: A)
B)
C)
D)

Solve the problem.

25) A company spent \$793,749,548 on advertising. Round the advertising figure to the nearest hundred - thousand.

25) _____

A) 800,000,000

B) 793,700,000

C) 700,000,000

D) 793,800,000

Answer: B

Explanation: A)
B)
C)
D)

Divide.

26) $0 \div 75$

A) 0

B) 1

C) 75

D) undefined

26) _____

Answer: A

Explanation: A)
B)
C)
D)

Subtract and check.

27)

$$\begin{array}{r} 91,249 \\ - 28,662 \\ \hline \end{array}$$

27) _____

A) 62,587

B) 62,503

C) 70,587

D) 62,583

Answer: A

Explanation: A)
B)
C)
D)

Replace the question mark with inequality symbol < or >.

28) $26 ? 0$

A) <

B) >

28) _____

Answer: B

Explanation: A)
B)

Use the commutative and/or associative property of addition and then simplify.

29) $16 + (1 + x)$

A) $16x$

B) $x + 17$

C) 17

D) $x + 16$

29) _____

Answer: B

Explanation: A)
B)
C)
D)

Add.

30) $725 + 69 + 4673 + 16,123$

A) $21,590$

B) $21,490$

C) $21,570$

D) $20,590$

30) _____

Answer: A

Explanation: A)
B)
C)
D)

Solve.

31) Tickets to a play were \$25 for adults and \$18 for children. 428 adult tickets were sold, and 245 children's tickets were sold. If the expenses for the play were \$7000, how much profit was made?

A) \$7829

B) \$15,110

C) \$8110

D) \$7110

31) _____

Answer: C

Explanation: A)
B)
C)
D)

Multiply.

32) $61,588(2000)$

A) $123,175,900$

B) $123,186,000$

C) $123,177,000$

D) $123,176,000$

32) _____

Answer: D

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

33) two to the third power

A) 2^3

B) $2 \cdot 3$

C) $\frac{2}{3}$

D) 3^2

33) _____

Answer: A

Explanation: A)
B)
C)
D)

Evaluate.

34) Evaluate $p + n$, if p is 4 and n is 14.

A) 19

B) $n + 14$

C) $p + 4$

D) 18

34) _____

Answer: D

Explanation: A)

B)

C)

D)

Translate using numbers and symbols.

35) five times the sum of nine and twelve

A) $5(9 + 12)$

B) $(5 + 9) \cdot 12$

C) $5 \cdot 9 \cdot 12$

D) $5 \cdot 9 + 12$

35) _____

Answer: A

Explanation: A)

B)

C)

D)

Solve the problem by estimating.

36) As part of her preparation for softball tryouts, Karen did 86 leg lifts each day for 54 days. Estimate how many leg lifts she did during that period. Round the number of leg lifts and the number of days to the nearest ten.

36) _____

A) 1300 leg lifts

B) 45,000 leg lifts

C) 13,000 leg lifts

D) 4500 leg lifts

Answer: D

Explanation: A)

B)

C)

D)

Solve.

37) Amy teaches Chinese lessons for \$55 per student for a 6-week session. From one group of students, she collects \$1650. Find how many students are in the group.

37) _____

A) 20 students

B) 30 students

C) 34 students

D) 32 students

Answer: B

Explanation: A)

B)

C)

D)

Multiply.

38) $(7)(3)(6)(4)$

A) 130

B) 20

C) 126

D) 504

38) _____

Answer: D

Explanation: A)

B)

C)

D)

Subtract.

39) $5 - 4$

A) 0

B) 3

C) 1

D) 2

39) _____

Answer: C

Explanation: A)

B)

C)

D)

Multiply.

40) $4289(346)$

A) 1,482,994

B) 1,493,994

C) 1,484,094

D) 1,483,994

40) _____

Answer: D

Explanation: A)

B)

C)

D)

Write in expanded notation.

41) Deborah withdraws \$39 from her account. She requests the minimum number of bills in one- and ten- dollar bills. Describe the quantity of each denomination of bills the teller must give Deborah.

41) _____

A) 9 ten- dollar bills, 3 one- dollar bills

B) 6 five- dollar bills, 9 one- dollar bills

C) 3 ten- dollar bills, 9 one- dollar bills

D) 3 ten- dollar bills

Answer: C

Explanation: A)

B)

C)

D)

Evaluate.

42) Evaluate $x + y + z$, if x is 30, y is 24 and z is 34.

42) _____

A) 86

B) 88

C) 89

D) 54

Answer: B

Explanation: A)

B)

C)

D)

Combine like terms.

43) $9xy - 2xy + 7$

43) _____

A) $11xy + 7$

B) $7xy$

C) $14xy$

D) $7xy + 7$

Answer: D

Explanation: A)

B)

C)

D)

Solve the problem by estimating.

- 44) The population of Capital City is 7,975,831 and the population of Spring City is 4,022,652. Round each population to the nearest hundred-thousand to estimate how much larger Capital City is than Spring City.

44) _____

A) 4,100,000

B) 3,953,000

C) 4,000,000

D) 3,900,000

Answer: C

Explanation: A)
B)
C)
D)

Write the word name for the number.

- 45) 70,146

45) _____

A) Seven million, one thousand, forty-six

B) Seven thousand, one hundred forty-six

C) Seventy thousand, one hundred forty-six

D) Seven hundred one thousand, forty-six

Answer: C

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

- 46) The product of three and a number

46) _____

A) $3n$

B) $n + 3$

C) $n - 3$

D) $\frac{n}{3}$

Answer: A

Explanation: A)
B)
C)
D)

Solve.

- 47) Ms. Losch has a piece of rope 206 feet long that she cuts into pieces for an experiment in her first-grade class. Each piece of rope is to be 9 feet long. How many 9 foot long pieces of rope can she cut from the original piece of rope.

47) _____

A) 8 pieces of rope

B) 30 pieces of rope

C) 22 pieces of rope

D) 23 pieces of rope

Answer: C

Explanation: A)
B)
C)
D)

Combine like terms.

- 48) $2m + 4m + 7m$

48) _____

A) $11m$

B) $14m$

C) $13m$

D) $12m$

Answer: C

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

49) The product of two and a number

49) _____

A) $x - 2$

B) $x + 2$

C) $\frac{x}{2}$

D) $2x$

Answer: D

Explanation: A)
B)
C)
D)

Solve.

50) A camera that sells regularly for \$450 is discounted by \$99 in a sale. What is the sale price?

50) _____

A) \$549

B) \$361

C) \$99

D) \$351

Answer: D

Explanation: A)
B)
C)
D)

Divide.

51) $87 \div 0$

51) _____

A) 1

B) 0

C) 87

D) undefined

Answer: D

Explanation: A)
B)
C)
D)

Multiply.

52) $4(1)(y \cdot 7)$

52) _____

A) $18y$

B) $280y$

C) $24y$

D) $28y$

Answer: D

Explanation: A)
B)
C)
D)

Subtract and check.

53)

53) _____

$$\begin{array}{r} 33,323 \\ - 6685 \\ \hline \end{array}$$

A) 26,638

B) 26,632

C) 32,638

D) 26,592

Answer: A

Explanation: A)
B)
C)
D)

Use the distributive property to simplify.

54) $8(a - 1)$

A) $8a - 1$

B) $8a - 8$

C) $a - 8$

D) $7a$

54) _____

Answer: B

Explanation: A)

B)

C)

D)

Translate using numbers and symbols.

55) Six minus three

A) $3 - 6$

B) $6 - x$

C) $6 - 3$

D) $6 - 4$

55) _____

Answer: C

Explanation: A)

B)

C)

D)

Translate into an equation. Do not solve the equation.

56) One plus what number equals eighteen?

A) $1x = 18$

B) $1 + x = 18$

C) $1 + 18 = x$

D) $1 = x + 18$

56) _____

Answer: B

Explanation: A)

B)

C)

D)

Evaluate.

57) $2m + 4n$ for $m = 3$ and $n = 5$

A) 22

B) 10

C) 6

D) 26

57) _____

Answer: D

Explanation: A)

B)

C)

D)

Write in expanded notation.

58) 3020

A) $3000 + 20$

B) 302,000

C) $300 + 2$

D) $30,000 + 2000$

58) _____

Answer: A

Explanation: A)

B)

C)

D)

Translate into an equation. Do not solve the equation.

59) If a number is subtracted from thirty-two the result is eight.

A) $32 - 8 = x$

B) $32 + x = 8$

C) $32 - x = 8$

D) $32 = 8 - x$

59) _____

Answer: C

Explanation: A)
B)
C)
D)

Use the commutative and/or associative property of addition and then simplify.

60) $8 + (n + 9 + 4)$

A) 21

B) $n + 13$

C) $n + 21$

D) $8n + 13$

60) _____

Answer: C

Explanation: A)
B)
C)
D)

Write the word name for the number.

61) Jennilee has 30,000 frequent flier miles.

A) Thirty million

B) Three hundred thousand

C) Three thousand

D) Thirty thousand

61) _____

Answer: D

Explanation: A)
B)
C)
D)

Solve the problem.

62) Round 3022 to the nearest thousand.

A) 3100

B) 4000

C) 3000

D) 2900

62) _____

Answer: C

Explanation: A)
B)
C)
D)

Evaluate.

63) 5^2

A) 36

B) 25

C) 10

D) 32

63) _____

Answer: B

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

64) Three less than four

A) $3 - 4$

B) $4 - 4$

C) $4 - x$

D) $4 - 3$

64) _____

Answer: D

Explanation: A)
B)
C)
D)

Evaluate.

65) Evaluate $x + y + 15$, if x is 25 and y is 36.

A) 77

B) 76

C) 61

D) 75

65) _____

Answer: B

Explanation: A)
B)
C)
D)

Divide and check your answer.

66) $42,185 \div 65$

A) 639

B) 654 R52

C) 649

D) 659 R60

66) _____

Answer: C

Explanation: A)
B)
C)
D)

67) $41 \overline{)6724}$

A) 165 R31

B) 165

C) 164 R32

D) 164

67) _____

Answer: D

Explanation: A)
B)
C)
D)

Replace the question mark with inequality symbol $<$ or $>$.

68) $45 ? 48$

A) $>$

B) $<$

68) _____

Answer: B

Explanation: A)
B)

Evaluate.

69) $7 \times 6 + 4(5 + 4) + 3$

A) 633

B) 81

C) 69

D) 90

69) _____

Answer: B

Explanation: A)
B)
C)
D)

Divide and check your answer.

70) $11,143 \div 14$

A) 795

B) 795 R13

C) 13

D) 795 R4

70) _____

Answer: B

Explanation: A)
B)
C)
D)

Use the distributive property to simplify.

71) $2(y + 3) - 1$

A) $2y + 6 - 1$

B) $2y + 2$

C) $2y + 7$

D) $2y + 5$

71) _____

Answer: D

Explanation: A)
B)
C)
D)

Find the perimeter of the figure.

72)

65 meters

72) _____

16 meters



16 meters

65 meters

A) 1040 meters

B) 81 meters

C) 146 meters

D) 162 meters

Answer: D

Explanation: A)
B)
C)
D)

Solve the problem.

73) Round 29,998 to the nearest ten.

A) 29,990

B) 29,000

C) 29,900

D) 30,000

73) _____

Answer: D

Explanation: A)
B)
C)
D)

Evaluate.

74) 7^3

A) 343

B) 21

C) 216

D) 2187

74) _____

Answer: A

Explanation: A)
B)
C)
D)

75) $8 \times 24 - 12 \div 4 + 2^2$

A) 193

B) 676

C) 28

D) 199

75) _____

Answer: A

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

76) y to the fourth power

A) $y \cdot 4$

B) 4^y

C) y^4

D) $\frac{y}{4}$

76) _____

Answer: C

Explanation: A)
B)
C)
D)

Multiply.

77) $12,555(889)$

A) 11,171,395

B) 11,161,395

C) 11,161,295

D) 11,162,395

77) _____

Answer: B

Explanation: A)
B)
C)
D)

Solve.

78) Karen went shopping for holiday presents for her family. She spent \$312 on Monday, \$390 on Tuesday, and \$356 on Wednesday. What is the total amount of money that she spent on gifts?

A) \$1058

B) \$1158

C) \$968

D) \$1068

78) _____

Answer: A

Explanation: A)
B)
C)
D)

Write the word name for the number.

79) 3072

A) Three million, seventy-two

C) Thirty thousand, seventy-two

B) Three hundred thousand, seventy-two

D) Three thousand, seventy-two

79) _____

Answer: D

Explanation: A)
B)
C)
D)

Solve the equation.

80) $7n - n = 24$

A) $n = 3$

B) $n = 4$

C) $n = 96$

D) $n = 8$

80) _____

Answer: B

Explanation: A)

B)

C)

D)

Solve.

81) Rhonda is trading her car in on a new car. The new car costs \$29,025. Her car is worth \$4998. How much more money does she need to buy the new car?

81) _____

A) \$24,027

B) \$24,017

C) \$24,028

D) \$23,927

Answer: A

Explanation: A)

B)

C)

D)

Translate into an equation, and then solve the equation.

82) Five subtracted from what number equals one?

82) _____

A) $x + 1 = 5$; 6

B) $x - 5 = 1$; 6

C) $5 - x = 1$; 4

D) $x - 5 = 1$; 5

Answer: B

Explanation: A)

B)

C)

D)

Subtract and check.

83)

$$\begin{array}{r} 57 \\ - 14 \\ \hline \end{array}$$

83) _____

A) 71

B) 43

C) 35

D) 63

Answer: B

Explanation: A)

B)

C)

D)

Evaluate.

84) $\frac{(x^3 - 3)}{y}$ for $x = 3$ and $y = 2$

84) _____

A) 12

B) 14

C) 11

D) 13

Answer: A

Explanation: A)

B)

C)

D)

85) Evaluate $x + y + z$, if x is 7, y is 8 and z is 13.

A) 15

B) 28

C) 27

D) 29

85) _____

Answer: B

Explanation: A)
B)
C)
D)

86) Evaluate $x + y + 22$, if x is 36 and y is 69.

A) 127

B) 128

C) 105

D) 126

86) _____

Answer: A

Explanation: A)
B)
C)
D)

Answer yes or no.

87) Is 15 a solution to the equation $27 - x = 12$?

A) Yes

B) No

87) _____

Answer: A

Explanation: A)
B)

Translate using numbers and symbols.

88) The sum of ten and a .

A) $a \times 10$

B) $10a$

C) $a + 10$

D) $10 - a$

88) _____

Answer: C

Explanation: A)
B)
C)
D)

Use the commutative and/or associative property of addition and then simplify.

89) $7 + (n + 6) + 7$

A) 20

B) $n + 20$

C) $7n + 13$

D) $n + 13$

89) _____

Answer: B

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

90) Nine times the sum of y and three

A) $9 \cdot y \cdot 3$

B) $(9 + y) \cdot 3$

C) $9(y + 3)$

D) $9 \cdot y + 3$

90) _____

Answer: C

Explanation: A)
B)
C)
D)

Solve the problem.

- 91) The chart below lists the monthly kilowatt-hours (kWh) used by the homes on Smith Street. Which home used the most kilowatt-hours in the month of December? 91) _____

Monthly Kilowatt-Hours for Fourth Quarter			
House No.	October	November	December
1N037	688 kWh	673 kWh	798 kWh
1N038	741 kWh	865 kWh	893 kWh
1N039	549 kWh	692 kWh	908 kWh

A) 1N039

B) 1N037

C) 1N038

Answer: A

Explanation: A)
B)
C)

Replace the question mark with the appropriate symbol < or >.

- 92) $41 ? 47$ 92) _____

A) >

B) <

Answer: B

Explanation: A)
B)

Use the commutative and/or associative property of addition and then simplify.

- 93) $4 + (5 + x)$ 93) _____

A) $5x + 4$

B) $x + 20$

C) $x + 9$

D) 9

Answer: C

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

- 94) The product of a and b 94) _____

A) ab

B) $a - b$

C) $\frac{a}{b}$

D) $a + b$

Answer: A

Explanation: A)
B)
C)
D)

Solve.

- 95) A yogurt shop offers three flavors of frozen yogurt and five kinds of toppings. How many different choices are possible for a single serving of frozen yogurt with one topping? 95) _____

A) 15

B) 12

C) 8

D) 18

Answer: A

Explanation: A)
B)
C)
D)

Use the Mathematics Blueprint for Problem Solving to solve.

- 96) In preparation for his new job, Bryan bought two suits at \$194 a piece, four shirts at \$21 a piece, two pairs of shoes at \$68 a piece, four ties at \$22 a piece, and five pairs of socks at \$6 a piece. What was the total cost of these items? 96) _____

A) \$696 B) \$726 C) \$311 D) \$742

Answer: B

Explanation: A)
B)
C)
D)

Divide and check your answer.

- 97) $166 \div 8$ 97) _____

A) 20 B) 26 C) 20 R6 D) 20 R7

Answer: C

Explanation: A)
B)
C)
D)

Use the distributive property to simplify.

- 98) $4(a + 1)$ 98) _____

A) $4a + 4$ B) $5a$ C) $4a + 1$ D) $a + 4$

Answer: A

Explanation: A)
B)
C)
D)

Solve the equation.

- 99) $6 + x = 12$ 99) _____

A) $x = 7$ B) $x = 5$ C) $x = 8$ D) $x = 6$

Answer: D

Explanation: A)
B)
C)
D)

Add.

- 100) 100) _____

$$\begin{array}{r} 864 \\ + 293 \\ \hline \end{array}$$

A) 1457 B) 1157 C) 1423 D) 1323

Answer: B

Explanation: A)
B)
C)
D)

Divide.

101) $2035 \div 25$

A) 81

B) 84 R5

C) 84 R17

D) 81 R10

101) _____

Answer: D

Explanation: A)
B)
C)
D)

Solve and check your answer.

102) $5n + n = 24$

A) 6

B) 144

C) 5

D) 4

102) _____

Answer: D

Explanation: A)
B)
C)
D)

Solve the problem by estimating.

103) The Pan family took a trip and traveled 565, 349, 739, 598, and 660 miles on 5 consecutive days. Round each distance to the nearest hundred and estimate the distance they traveled.

103) _____

A) 3100 miles

B) 3000 miles

C) 2800 miles

D) 2900 miles

Answer: D

Explanation: A)
B)
C)
D)

Solve the problem.

104) A publishing company sold 25,266,591 books. Round the number of books sold to the nearest ten-million.

104) _____

A) 25,000,000

B) 25,270,000

C) 30,000,000

D) 20,000,000

Answer: C

Explanation: A)
B)
C)
D)

Rewrite using numbers and an inequality symbol.

105) Nineteen is greater than fourteen.

105) _____

A) $19 > 0$

B) $19 < 14$

C) $14 > 19$

D) $19 > 14$

Answer: D

Explanation: A)
B)
C)
D)

Write in expanded notation.

106) 23,154

A) $40,000 + 5000 + 100 + 30 + 2$

C) $2000 + 300 + 10 + 54$

B) 23,154

D) $20,000 + 3000 + 100 + 50 + 4$

106) _____

Answer: D

Explanation: A)
B)
C)
D)

Multiply.

107) $109(18)$

A) 1953

B) 342

C) 1962

D) 1971

107) _____

Answer: C

Explanation: A)
B)
C)
D)

108) $(3a)5 \cdot 5$

A) 75

B) $65a$

C) $175a$

D) $75a$

108) _____

Answer: D

Explanation: A)
B)
C)
D)

Solve.

109) A dairy produces 350,000 quarts of milk each day. There are 4 quarts in a gallon. How many gallons of milk are produced each day?

A) 8750 gal.

B) 875,000 gal.

C) 1,400,000 gal.

D) 87,500 gal.

109) _____

Answer: D

Explanation: A)
B)
C)
D)

Determine the place value of the digit 3 in the whole number.

110) 4,347,654

A) hundreds

C) hundred thousands

B) thousands

D) ten thousands

110) _____

Answer: C

Explanation: A)
B)
C)
D)

Translate into an equation, and then solve the equation.

111) Two added to what number equals eight?

A) $2 + x = 8; 6$

B) $2 + x = 8; 5$

C) $2 = x + 8; 6$

D) $2 + x = 8; 7$

111) _____

Answer: A

Explanation: A)
B)
C)
D)

Divide.

112) $1736 \div 31$

A) 56

B) 56 R22

C) 57 R21

D) 57

112) _____

Answer: A

Explanation: A)
B)
C)
D)

Evaluate.

113) $7 \cdot 7^2$

A) 49

B) 343

C) 56

D) 21

113) _____

Answer: B

Explanation: A)
B)
C)
D)

Solve and check your answer.

114) $2 + (y + 4) = 8$

A) 3

B) 4

C) 1

D) 2

114) _____

Answer: D

Explanation: A)
B)
C)
D)

Write in exponent form.

115) $2 \cdot 2 \cdot 2 \cdot 2$

A) 2^2

B) 2^4

C) 8

D) 4^2

115) _____

Answer: B

Explanation: A)
B)
C)
D)

Use the commutative and/or associative property of addition and then simplify.

116) $(8 + 3) + (7 + h)$

A) $18h$

B) $h + 18$

C) $h + 17$

D) $7h + 11$

116) _____

Answer: B

Explanation: A)
B)
C)
D)

Solve and check your answer.

117) $x - 4 = 0$

A) 0

B) 4

C) 5

D) 3

117) _____

Answer: B

Explanation: A)
B)
C)
D)

Subtract.

118) If $800 - 700 = 100$, find $800 - 706$ using subtraction patterns.

A) 106

B) 96

C) 94

D) 104

118) _____

Answer: C

Explanation: A)
B)
C)
D)

119)

$$\begin{array}{r} 51,545 \\ - 7865 \\ \hline \end{array}$$

119) _____

A) 50,680

B) 43,680

C) 43,590

D) 43,670

Answer: B

Explanation: A)
B)
C)
D)

Use the distributive property to simplify.

120) $7(x + 8)$

A) $7x + 15$

B) $7x + 8$

C) $7x + 56$

D) $x + 56$

120) _____

Answer: C

Explanation: A)
B)
C)
D)

Divide.

121) $38 \div 38$

A) 1

B) 0

C) 38

D) undefined

121) _____

Answer: A

Explanation: A)
B)
C)
D)

Multiply.

122) $11 \cdot 5 \cdot 7 \cdot 7$

A) 30

B) 385

C) 2695

D) 392

122) _____

Answer: C

Explanation: A)
B)
C)
D)

Solve the problem by estimating.

123) A local hot dog stand sells 242 hotdogs on an average day. Estimate how many hotdogs they sold in the last 129 days. Round the number of hotdogs and the number of days to the nearest ten. 123) _____

A) 313,000 bagels

B) 31,200 bagels

C) 312,000 bagels

D) 31,300 bagels

Answer: B

Explanation: A)
B)
C)
D)

Solve.

124) Claire is reading a 401-page book. If she has just finished reading page 196, how many more pages must she read to finish the book? 124) _____

A) 206 pages

B) 205 pages

C) 215 pages

D) 315 pages

Answer: B

Explanation: A)
B)
C)
D)

Multiply.

125) $3(z \cdot 5)$

A) $150z$

B) $15z$

C) $5z$

D) $12z$

125) _____

Answer: B

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

126) five times y plus ten

A) $5(y + 10)$

B) $10y + 5$

C) $5 \cdot 10 + y$

D) $5y + 10$

126) _____

Answer: D

Explanation: A)
B)
C)
D)

Translate into an equation. Do not solve the equation.

127) Forty-eight divided by what number is equal to two?

A) $48x = 2$

B) $48 - x = 2$

C) $\frac{48}{x} = 2$

D) $\frac{2}{x} = 48$

127) _____

Answer: C

Explanation: A)
B)
C)
D)

Solve the problem by estimating.

128) Juan travelled for 4 weeks in Europe last year and spent \$2401 while he was there. Estimate the average amount he spent each day. Round the number of days to the nearest ten and the amount of money spent to the nearest hundred.

A) \$800

B) \$700

C) \$80

D) \$70

128) _____

Answer: C

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

129) Twelve subtracted from sixteen

A) $16 - 13$

B) $16 - x$

C) $12 - 16$

D) $16 - 12$

129) _____

Answer: D

Explanation: A)
B)
C)
D)

130) Eleven more than p

A) $11p$

B) $p + 11$

C) $p \times 11$

D) $p - 11$

130) _____

Answer: B

Explanation: A)
B)
C)
D)

Evaluate for the given values.

131) Evaluate $4 - x$ if x is equal to 1.

A) 3

B) 1

C) 4

D) 2

131) _____

Answer: A

Explanation: A)

B)

C)

D)

Subtract and check.

132)

$$\begin{array}{r} 537 \\ - 464 \\ \hline \end{array}$$

132) _____

A) 65

B) 1001

C) 73

D) -27

Answer: C

Explanation: A)

B)

C)

D)

Solve.

133) The population of Marion County is 1,080,290. The population of Broselow County is 235,462. The population of Cross County is 112,361. How much greater is the population of Marion County than Cross County?

133) _____

A) 844,928

B) 844,828

C) 966,929

D) 967,929

Answer: D

Explanation: A)

B)

C)

D)

Translate into an equation, and then solve the equation.

134) What number divided by six equals three?

134) _____

A) $6x = 3$; 18

B) $6 \div x = 3$; 18

C) $x \div 6 = 3$; 18

D) $x - 6 = 3$; 9

Answer: C

Explanation: A)

B)

C)

D)

Divide and check your answer.

135) $192,841 \div 900$

135) _____

A) 214 R181

B) 241

C) 214

D) 214 R241

Answer: D

Explanation: A)

B)

C)

D)

Use the commutative and/or associative property of addition and then simplify.

136) $6 + (y + 9)$

A) $y + 54$

B) $9y + 6$

C) 15

D) $y + 15$

136) _____

Answer: D

Explanation: A)
B)
C)
D)

Subtract and check.

137)

$$\begin{array}{r} 9040 \\ - 3787 \\ \hline \end{array}$$

A) 5253

B) 6363

C) 6747

D) 7763

137) _____

Answer: A

Explanation: A)
B)
C)
D)

Multiply.

138) $485(203)$

A) $98,465$

B) $98,455$

C) $98,555$

D) $98,445$

138) _____

Answer: B

Explanation: A)
B)
C)
D)

Solve the problem.

139) Round 90,921 to the nearest hundred.

A) $90,900$

B) $90,910$

C) $91,000$

D) $90,800$

139) _____

Answer: A

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

140) ten times eight minus four

A) $10 \cdot 4 - 8$

B) $10 \cdot (8 - 4)$

C) $10 \cdot 8 - 4$

D) $8 \cdot 4 - 10$

140) _____

Answer: C

Explanation: A)
B)
C)
D)

Solve the problem by estimating.

141) Linda scored 82, 85, 90, 68, 94, and 100 on her calculus tests. Round each score to the nearest ten to estimate her total score.

141) _____

A) 520

B) 530

C) 510

D) 500

Answer: A

Explanation: A)
B)
C)
D)

Rewrite using numbers and an inequality symbol.

142) Six is greater than two.

142) _____

A) $6 > 0$

B) $6 > 2$

C) $6 < 2$

D) $2 > 6$

Answer: B

Explanation: A)
B)
C)
D)

Subtract and check.

143)

143) _____

944
- 59

A) 885

B) 785

C) 1003

D) 877

Answer: A

Explanation: A)
B)
C)
D)

Solve and check your answer.

144) $5 - n = 3$

144) _____

A) 3

B) 1

C) 2

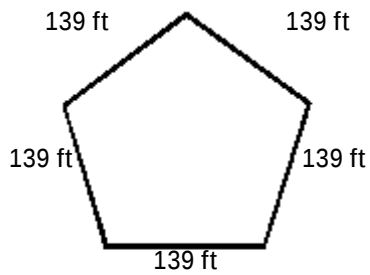
D) 4

Answer: C

Explanation: A)
B)
C)
D)

Find the perimeter of the figure.

145)



A) 19,321 ft

B) 695 ft

C) 834 ft

D) 710 ft

Answer: B

Explanation: A)
B)
C)
D)

145) _____

Multiply.

146) 312(80)

A) 25,960

B) 23,960

C) 34,960

D) 24,960

Answer: D

Explanation: A)
B)
C)
D)

146) _____

147) (364)(778)

A) 283,292

B) 283,192

C) 283,202

D) 283,182

Answer: B

Explanation: A)
B)
C)
D)

147) _____

Translate using numbers and symbols.

148) Two decreased by one

A) $2 \div 1$

B) $1 - 2$

C) $2 - 1$

D) $2 - x$

Answer: C

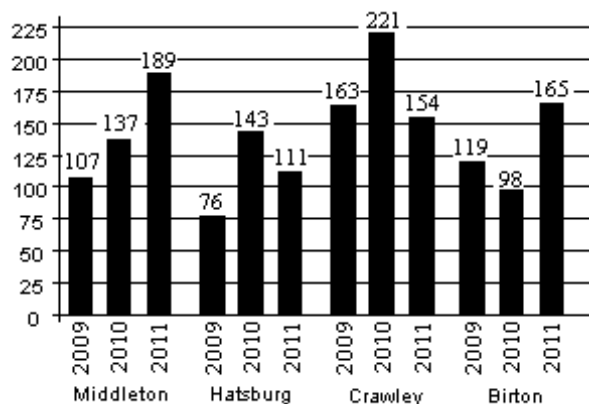
Explanation: A)
B)
C)
D)

148) _____

Solve.

149) The number of new residents in four towns from 2009 to 2011 is given in the following bar graph.

149) _____



What was the increase in the number of new residents in Hatsburg from 2009 to 2010?

A) 62

B) 57

C) 67

D) 52

Answer: C

Explanation: A)
B)
C)
D)

150) Karl wishes to pay off a car loan of \$9440 in 32 months. How large will his monthly payment be?

150) _____

A) \$285

B) \$295

C) \$3540

D) \$290

Answer: B

Explanation: A)
B)
C)
D)

Evaluate.

151) n^9 for $n = 1$

151) _____

A) 9

B) 0

C) 18

D) 1

Answer: D

Explanation: A)
B)
C)
D)

152) $\frac{(x+7)}{3}$ for $x = 5$

152) _____

A) 4

B) 9

C) 2

D) 12

Answer: A

Explanation: A)
B)
C)
D)

Solve.

- 153) The textbook for a history class costs \$52. There are 31 students in the class. Find the total cost of the history books for the class. 153) _____

A) \$1560 B) \$83 C) \$1581 D) \$1612

Answer: D

Explanation: A)
 B)
 C)
 D)

Solve and check your answer.

- 154) $1 + x = 20$ 154) _____

A) 18 B) 22 C) 19 D) 21

Answer: C

Explanation: A)
 B)
 C)
 D)

Solve.

- 155) Paula has a total of \$1800 in her checking account. If she writes a check for each of the items below, how much money will be left in her account? 155) _____

phone \$ 48
rent \$750
car \$429

A) \$573 B) \$563 C) \$1227 D) \$572

Answer: A

Explanation: A)
 B)
 C)
 D)

- 156) In a distant galaxy the gravity of planet A is 218 times as strong as the gravity of planet B, so objects on planet A weigh 218 times as much as they weigh on planet B. If the object weighs 31,174 pounds on planet A, how much does it weigh on planet B? 156) _____

A) 1430 lb. B) 153 lb. C) 136 lb. D) 143 lb.

Answer: D

Explanation: A)
 B)
 C)
 D)

Determine the place value of the digit 3 in the whole number.

- 157) 1316 157) _____

A) thousands B) tens C) ones D) hundreds

Answer: D

Explanation: A)
 B)
 C)
 D)

Evaluate.

158) 6^4

A) 24

B) 4096

C) 216

D) 1296

158) _____

Answer: D

Explanation: A)
B)
C)
D)

Multiply.

159) $7(358)$

A) 2516

B) 2406

C) 2606

D) 2506

159) _____

Answer: D

Explanation: A)
B)
C)
D)

Use the Mathematics Blueprint for Problem Solving to solve.

160) Nathan had a balance of \$69 in his checking account. Since then he made deposits of \$180, \$468 and \$305 and wrote checks for \$89, \$151, \$249, and \$390. When all of the deposits are recorded and all of the checks clear, what will balance will he have in his checking account?

160) _____

A) \$143

B) \$1901

C) \$232

D) \$74

Answer: A

Explanation: A)
B)
C)
D)

Write in expanded notation.

161) Christopher withdraws \$284 from his account. He requests the minimum number of bills in one-, ten-, and hundred-dollar bills. Describe the quantity of each denomination of bills the teller must give Christopher.

161) _____

A) 8 hundred-dollar bills, 2 ten-dollar bills, 4 one-dollar bills

B) 10 twenty-dollar bills, 8 ten-dollar bills, 4 one-dollar bills

C) 4 fifty-dollar bills, 8 ten-dollar bills, 4 one-dollar bills

D) 2 hundred-dollar bills, 8 ten-dollar bills, 4 one-dollar bills

Answer: D

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

162) Seventeen minus a number

162) _____

A) $17 \div t$

B) $18 - t$

C) $17 - t$

D) $t - 17$

Answer: C

Explanation: A)
B)
C)
D)

Solve.

- 163) The Pan family took a trip and traveled 165, 549, 639, 598, and 560 miles on 5 consecutive days. Round each distance to the nearest hundred and estimate the distance they traveled.

163) _____

- A) 2500 miles B) 2700 miles C) 2600 miles D) 2400 miles

Answer: A

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

- 164) the sum of nineteen and y

164) _____

- A) $y \times 19$ B) $y + 19$ C) $19 - y$ D) $19y$

Answer: B

Explanation: A)
B)
C)
D)

Solve and check your answer.

165) $\frac{15}{x} = 3$

165) _____

- A) 5 B) 45 C) 7 D) 6

Answer: A

Explanation: A)
B)
C)
D)

Determine the place value of the digit 3 in the whole number.

- 166) 10,788,853

166) _____

- A) hundreds B) ten millions C) ones D) tens

Answer: C

Explanation: A)
B)
C)
D)

Solve the problem.

- 167) Round 9,999,999 to the nearest ten.

167) _____

- A) 10,000,000 B) 10,000,090 C) 9,999,990 D) 100,000,000

Answer: A

Explanation: A)
B)
C)
D)

Solve.

- 168) Francis has a total of \$2303 in her checking account. She writes three checks: \$48 for the phone bill, \$750 for her rent, and \$429 for her car payment. How much money is left in her account? 168) _____
- A) \$1075 B) \$1066 C) \$1076 D) \$1227

Answer: C

Explanation: A)
B)
C)
D)

Evaluate.

- 169) $8^2 \div 8 \times 4 + 5$ 169) _____
- A) 37 B) 8 C) 160 D) 27

Answer: A

Explanation: A)
B)
C)
D)

- 170) z^3 for $z = 7$ 170) _____
- A) 7 B) 343 C) 49 D) 21

Answer: B

Explanation: A)
B)
C)
D)

Solve the problem.

- 171) Round 328 to the nearest ten. 171) _____
- A) 330 B) 320 C) 340 D) 430

Answer: A

Explanation: A)
B)
C)
D)

Use the commutative and/or associative property of addition and then simplify.

- 172) $6 + y + 5$ 172) _____
- A) $y + 11$ B) $5y + 6$ C) 11 D) $y + 30$

Answer: A

Explanation: A)
B)
C)
D)

Write the word name for the number.

173) 22,000,674

173) _____

- A) Two million, two thousand, six hundred seventy-four
- B) Twenty-two hundred million, six hundred seventy-four
- C) Twenty-two million, six thousand seventy-four
- D) Twenty-two million, six hundred seventy-four

Answer: D

Explanation: A)
B)
C)
D)

Add.

174)

174) _____

3020
300
71
+ 6746

- A) 9127
- B) 10,027
- C) 9037
- D) 10,137

Answer: D

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

175) Five subtracted from a number

175) _____

- A) 5 - m
- B) 5m
- C) m - 6
- D) m - 5

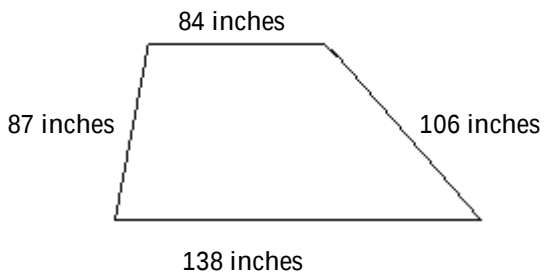
Answer: D

Explanation: A)
B)
C)
D)

Find the perimeter of the figure.

176)

176) _____



- A) 380 inches
- B) 415 inches
- C) 386 inches
- D) 331 inches

Answer: B

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

177) The sum of eight and three.

A) $8 + 3$

B) 3×8

C) 11

D) $8 - 3$

177) _____

Answer: A

Explanation: A)
B)
C)
D)

Solve the problem.

178) The chart below lists the prices for custom windows. Window sizes are stated width $\times$ length, so a window that is 29×31 is 29 inches wide and 31 inches tall. John wants to replace four 25×31 windows, three 29×36 windows and two 29×41 windows. How much will the windows cost?

178) _____

Custom Window Pricing			
Width	25"	27"	29"
Height			
31"	\$180	\$220	\$260
36"	\$250	\$290	\$330
41"	\$320	\$360	\$400

A) \$2580

B) \$2790

C) \$2670

D) \$2510

Answer: D

Explanation: A)
B)
C)
D)

Solve the equation.

179) $x + 3x = 36$

A) $x = 10$

B) $x = 11$

C) $x = 9$

D) $x = 144$

179) _____

Answer: C

Explanation: A)
B)
C)
D)

Evaluate.

180) $30 \div 6 + 5 \cdot 6 + 30$

A) 65

B) 155

C) 40

D) 180

180) _____

Answer: A

Explanation: A)
B)
C)
D)

181) 7^5

A) 78,125

B) 16,807

C) 117,649

D) 35

181) _____

Answer: B

Explanation: A)
B)
C)
D)

182) Evaluate $y + 13$, if y is equal to 18.

A) 31

B) $y + 18$

C) 32

D) 234

182) _____

Answer: A

Explanation: A)
B)
C)
D)

Solve and check your answer.

183) $x + 3 = 10$

A) 6

B) 9

C) 7

D) 8

183) _____

Answer: C

Explanation: A)
B)
C)
D)

Divide and check your answer.

184) $6790 \div 35$

A) 194 R26

B) 194

C) 195 R25

D) 195

184) _____

Answer: B

Explanation: A)
B)
C)
D)

Combine like terms.

185) $6a + 3b + 4a + 5b$

A) $10a + 8b$

B) $18ab$

C) $8a + 10b$

D) $10a + 3b + 5b$

185) _____

Answer: A

Explanation: A)
B)
C)
D)

Translate into an equation. Do not solve the equation.

186) What number times four equals seventy-two?

A) $x = 4 \cdot 72$

B) $4 + x = 72$

C) $4x = 72$

D) $4 = 72x$

186) _____

Answer: C

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

187) Eighteen plus three

A) $18 + 3$

B) 3×18

C) 21

D) $18 - 3$

187) _____

Answer: A

Explanation: A)
B)
C)
D)

Add.

188) $233,748,601 + 19,099$

A) 233,767,800

B) 233,767,700

C) 233,768,700

D) 233,767,690

188) _____

Answer: B

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

189) A number divided by 16

A) $x - 16$

B) $16x$

C) $x \div 16$

D) $16 \div x$

189) _____

Answer: C

Explanation: A)
B)
C)
D)

Replace the question mark with the appropriate symbol < or >.

190) $35 ? 0$

A) <

B) >

190) _____

Answer: B

Explanation: A)
B)

Solve.

191) A yogurt shop offers three different flavors of frozen yogurt and four different toppings. How many choices are possible for a single serving of frozen yogurt with one topping?

A) 9

B) 15

C) 7

D) 12

191) _____

Answer: D

Explanation: A)
B)
C)
D)

Combine like terms.

192) $6a + 12 + a + 2ab$

A) $9ab + 12$

B) $7a + 2ab + 12$

C) $9a + 2b + 12$

D) $6a + 2ab + 12$

192) _____

Answer: B

Explanation: A)
B)
C)
D)

Solve the problem by estimating.

193) Andy wants to buy a refrigerator for \$999, a stove for \$659, and a dishwasher for \$249. Round each cost to the nearest hundred to estimate the total cost.

193) _____

A) \$2000

B) \$1700

C) \$1900

D) \$1800

Answer: C

Explanation: A)
B)
C)
D)

Solve.

194) One lottery ticket won a prize of \$8,554,000. The winning ticket was purchased by 26 people who had pooled their money. Find how many dollars each person receives if they each receive an equal share.

194) _____

A) \$33,000

B) \$32,900

C) \$329,000

D) \$328,000

Answer: C

Explanation: A)
B)
C)
D)

195) Consider the following population data.

195) _____

Population of Four States from 1970 to 2010

State	1970	1980	1990	2000	2010
A	10,081,158	11,110,285	11,427,409	11,430,602	12,051,683
B	7,823,194	8,881,826	9,262,044	9,295,297	9,679,052
C	4,662,498	5,195,392	5,490,212	5,544,159	6,045,521
D	3,413,864	3,806,103	4,075,970	4,375,099	4,830,784

How much did the population of state D increase from 1990 to 2010?

A) 754,814

B) 744,814

C) 455,685

D) 465,685

Answer: A

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

196) nine times the sum of x and three

A) $9(x + 3)$

B) $9 \cdot x \cdot 3$

C) $9 \cdot x + 3$

D) $(9 + x) \cdot 3$

196) _____

Answer: A

Explanation: A)
B)
C)
D)

Use the distributive property to simplify.

197) $3(y + 6) + 2$

A) $3y + 16$

B) $3y + 20$

C) $3y + 18 + 2$

D) $3y + 8$

197) _____

Answer: B

Explanation: A)
B)
C)
D)

Subtract and check.

198)

$$\begin{array}{r} 906,555 \\ - 373,060 \\ \hline \end{array}$$

198) _____

A) 533,495

B) 543,495

C) 533,505

D) 532,495

Answer: A

Explanation: A)
B)
C)
D)

Use the Mathematics Blueprint for Problem Solving to solve.

199) Carla's Coffee Corner has 30 tables and each table has either 2 or 4 chairs. If there are 102 chairs to go with the 30 tables, how many tables have exactly 4 chairs?

199) _____

A) 10 tables

B) 9 tables

C) 20 tables

D) 21 tables

Answer: D

Explanation: A)
B)
C)
D)

Multiply.

200)

$$\begin{array}{r} 23 \\ \times 51 \\ \hline \end{array}$$

200) _____

A) 1183

B) 1173

C) 1163

D) 1273

Answer: B

Explanation: A)
B)
C)
D)

Use the Mathematics Blueprint for Problem Solving to solve.

201) Elaine and Dan want to install wall-to-wall carpeting in their family room. The floor of the rectangular room is 30 feet long and 27 feet wide. How much will it cost to carpet the room if the carpet costs \$21.17 per square yard? Round your answer to the nearest cent.

201) _____

A) \$17,147.70

B) \$635.10

C) \$1905.30

D) \$154,329.30

Answer: C

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

202) A number times two

202) _____

A) $x - 2$

B) $\frac{x}{2}$

C) $x + 2$

D) $2x$

Answer: D

Explanation: A)
B)
C)
D)

Determine the place value of the digit 3 in the whole number.

203) 38,461

203) _____

A) tens

B) thousands

C) hundred thousands

D) ten thousands

Answer: D

Explanation: A)
B)
C)
D)

Multiply.

204) $7(5 \cdot x)$

204) _____

A) $35x$

B) $28x$

C) $25x$

D) $350x$

Answer: A

Explanation: A)
B)
C)
D)

Determine the place value of the digit 3 in the whole number.

205) 883,878,454

205) _____

A) thousands

B) hundred millions

C) hundred thousands

D) millions

Answer: D

Explanation: A)
B)
C)
D)

Write the word name for the number.

206) 4,200,091

206) _____

- A) Four million, twenty thousand, ninety-one
- B) Four million, two hundred ninety-one
- C) Four million, two hundred thousand, ninety-one
- D) Forty-two thousand, ninety-one

Answer: C

Explanation: A)
B)
C)
D)

207) 64,568,009

207) _____

- A) Sixty-four million, five hundred sixty-eight thousand, nine
- B) Sixty million, forty-five thousand, sixty-eight hundred and nine
- C) Sixty-million, five thousand sixty-eight hundred, nine
- D) Sixty-four million, five hundred thousand, sixty-eight hundred, nine

Answer: A

Explanation: A)
B)
C)
D)

Write in expanded notation.

208) 942

208) _____

- A) 94,200
- B) $900 + 40 + 2$
- C) $9000 + 400 + 20$
- D) $200 + 40 + 9$

Answer: B

Explanation: A)
B)
C)
D)

Write in exponent form.

209) $5 \cdot 5 \cdot 5$

209) _____

- A) 5^3
- B) $3 \cdot 5$
- C) 3^5
- D) 5^1

Answer: A

Explanation: A)
B)
C)
D)

Solve the equation.

210) $2 + (b + 4) = 13$

A) $b = 6$

B) $b = 7$

C) $b = 9$

D) $b = 8$

210) _____

Answer: B

Explanation: A)
B)
C)
D)

Evaluate.

211) $\frac{34(8 - 5) - 30}{3^2 - 3}$

A) 24

B) 17

C) 12

D) 18

211) _____

Answer: C

Explanation: A)
B)
C)
D)

Multiply.

212) $6 \cdot 5(3y)$

A) 90

B) 80y

C) 90y

D) 190y

212) _____

Answer: C

Explanation: A)
B)
C)
D)

Evaluate.

213) $4 \cdot 7 - 1$

A) 28

B) 24

C) 29

D) 27

213) _____

Answer: D

Explanation: A)
B)
C)
D)

Write the word name for the number.

214) 135,060

A) Thirteen thousand, five hundred sixty

C) Thirteen thousand, five hundred six

B) One hundred thirty-five thousand, sixty

D) One million, thirty-five thousand, sixty

214) _____

Answer: B

Explanation: A)
B)
C)
D)

Solve.

215) A stock worth \$145 per share on July 12 dropped to \$69 per share on July 31 of the same year. Find how much it lost in value from July 12th to the 31st. 215) _____

- A) \$84 B) \$77 C) \$86 D) \$76

Answer: D

Explanation: A)
B)
C)
D)

Write the word name for the number.

216) 9,300,695 216) _____

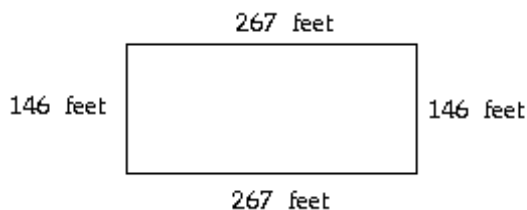
- A) Ninety-three thousand, six hundred ninety-five
B) Nine million, thirty thousand, six hundred ninety-five
C) Nine million, three thousand, six hundred ninety-five
D) Nine million, three hundred thousand, six hundred ninety-five

Answer: D

Explanation: A)
B)
C)
D)

Find the perimeter of the figure.

217) 217) _____



- A) 1068 feet B) 826 feet C) 413 feet D) 922 feet

Answer: B

Explanation: A)
B)
C)
D)

Use the commutative property of addition to rewrite the sum.

218) $5 + c$ 218) _____

- A) $5 \times c$ B) $5c$ C) 5 D) $c + 5$

Answer: D

Explanation: A)
B)
C)
D)

Write in exponent form.

219) $z \cdot z \cdot z \cdot z \cdot z \cdot z \cdot 9 \cdot 9 \cdot 9$

A) $3 \cdot 9 \cdot z^6$

B) $9^2 z^5$

C) $3^9 z^6$

D) $9^3 z^6$

219) _____

Answer: D

Explanation: A)
B)
C)
D)

Write as repeated multiplication.

220) z^4

A) $z + z + z + z$

B) $z \cdot z \cdot z \cdot z$

C) $4 \cdot z$

D) $z \cdot z \cdot z \cdot z \cdot z$

220) _____

Answer: B

Explanation: A)
B)
C)
D)

Translate the symbols into words.

221) ab

A) the difference a and b

B) the product of a and b

C) the sum of a and b

D) the quotient of a and b

221) _____

Answer: B

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

222) Three added to a number

A) $3 - x$

B) $3x$

C) $x \times 3$

D) $x + 3$

222) _____

Answer: D

Explanation: A)
B)
C)
D)

Write in exponent form.

223) 4

A) 1^4

B) $1 \cdot 4$

C) 4^1

D) 4^2

223) _____

Answer: C

Explanation: A)
B)
C)
D)

Write in expanded notation.

224) 20,100

A) $2000 + 100$

B) 2,100,000

C) $20,000 + 100$

D) $20,000 + 1000$

224) _____

Answer: C

Explanation: A)
B)
C)
D)

Multiply.

225) $0(7)(a \cdot 4)$

A) $28a$

B) a

C) 0

D) $4a$

225) _____

Answer: C

Explanation: A)
B)
C)
D)

Write the division statement that corresponds to the situation. Do not carry out the division.

226) At The Book Shoppe, 960 books were packed in 32 boxes. Each box contained the same number of books.

226) _____

A) 960×32

B) $960 \div 32$

C) $32 + 960$

D) $32 \div 960$

Answer: B

Explanation: A)
B)
C)
D)

Combine like terms.

227) $8x + 4x$

A) 12

B) $12x$

C) $4x$

D) $8x$

227) _____

Answer: B

Explanation: A)
B)
C)
D)

Evaluate.

228) 11^3

A) 177,147

B) 1000

C) 1331

D) 33

228) _____

Answer: C

Explanation: A)
B)
C)
D)

Solve the equation.

229) $\frac{x}{8} = 6$

229) _____

A) $x = 38$

B) $x = 48$

C) $x = 480$

D) $x = 40$

Answer: B

Explanation: A)
B)
C)
D)

Write in exponent form.

230) $n \cdot n \cdot n \cdot n \cdot n \cdot n$

230) _____

A) $6 \cdot n$

B) n^5

C) n^6

D) 6^n

Answer: C

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

231) a number plus seven

231) _____

A) $x \times 7$

B) $x + 7$

C) $x - 7$

D) $7x$

Answer: B

Explanation: A)
B)
C)
D)

Evaluate.

232) Evaluate $x + 2$, if x is equal to 7.

232) _____

A) 9

B) $x + 7$

C) 14

D) 10

Answer: A

Explanation: A)
B)
C)
D)

Divide and check your answer.

233) $3 \overline{)8623}$

233) _____

A) 2875

B) 2874 R1

C) 2874

D) 2874 R2

Answer: B

Explanation: A)
B)
C)
D)

Use the associative property of addition to rewrite the sum, then simplify.

234) $(x + 8) + 6$

A) $x + 15$

B) $14x$

C) 14

D) $x + 14$

234) _____

Answer: D

Explanation: A)
B)
C)
D)

Subtract and check.

235)

4446

- 811

A) 365

B) 3633

C) 3635

D) 3613

235) _____

Answer: C

Explanation: A)
B)
C)
D)

Multiply.

236)

1707

× 502

A) 855,207

B) 88,764

C) 856,914

D) 11,949

236) _____

Answer: C

Explanation: A)
B)
C)
D)

Subtract and check.

237)

64

- 36

A) 20

B) 100

C) 48

D) 28

237) _____

Answer: D

Explanation: A)
B)
C)
D)

Add.

238) $5726 + 671 + 54 + 5338$

A) 11,679

B) 10,779

C) 10,689

D) 11,789

238) _____

Answer: D

Explanation: A)
B)
C)
D)

Multiply.

239) $7(10)(b \cdot 1)$

A) 700b

B) 60b

C) 63b

D) 70b

239) _____

Answer: D

Explanation: A)
B)
C)
D)

Solve.

240) The Booster Club sells hot dogs, tacos, cheeseburgers, or pizza with milk, cola, root beer, tea, or lemonade at a football game. How many different 1-food/1-drink combinations can you order?

A) 22

B) 24

C) 20

D) 10

240) _____

Answer: B

Explanation: A)
B)
C)
D)

Divide and check your answer.

241) $37 \overline{)5547}$

A) 149 R34

B) 152 R5

C) 149

D) 152 R29

241) _____

Answer: A

Explanation: A)
B)
C)
D)

Solve.

242) The seats in the lecture hall are arranged in 23 rows with 7 seats in each row. Find how many seats are in this room.

A) 154 seats

B) 161 seats

C) 168 seats

D) 171 seats

242) _____

Answer: B

Explanation: A)
B)
C)
D)

Evaluate.

$$243) \frac{83 + 7}{3^2 - 4}$$

243) _____

A) 27

B) 16

C) 45

D) 18

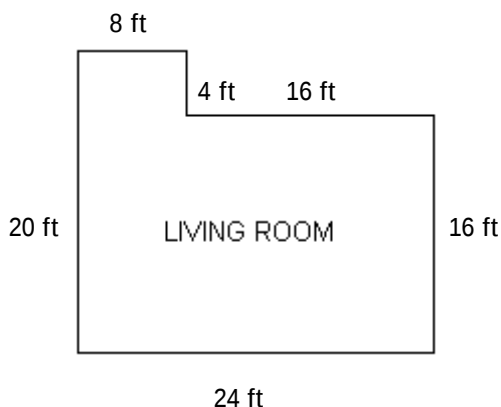
Answer: D

Explanation: A)
B)
C)
D)

Solve the problem.

244) Sue wants to add a decorative wallpaper border to her living room. Refer to the diagram below for the dimensions of Sue's living room. How many feet of wallpaper border will she need?

244) _____



A) 88 ft

B) 72 ft

C) 84 ft

D) 80 ft

Answer: A

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

245) five times the difference of two and x

245) _____

A) $5(x - 2)$

B) $5 \cdot 2 - x$

C) $(5 - x) \cdot 2$

D) $5(2 - x)$

Answer: D

Explanation: A)
B)
C)
D)

Solve.

246) Julia went shopping for holiday presents for her family. She spent \$154 on Monday, \$357 on Tuesday, and \$387 on Wednesday. What is the total amount of money that she spent on gifts?

246) _____

A) \$898

B) \$888

C) \$988

D) \$798

Answer: A

Explanation: A)
B)
C)
D)

Write the division statement that corresponds to the situation. Do not carry out the division.

247) A zoo keeper has 56 pounds of meat to distribute to the lion pride. He needs to divide the meat into equal portions for 7 lions. How many pounds should each lion receive? 247) _____

A) $56 \div 7$

B) $7 \div 8$

C) $56 \div 8$

D) $7 \div 56$

Answer: A

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

248) The quotient of 66 and a number 248) _____

A) $66 - x$

B) $x - 66$

C) $66 \div x$

D) $x \div 66$

Answer: C

Explanation: A)
B)
C)
D)

249) a number added to nine 249) _____

A) $9m$

B) $m + 9$

C) $m - 9$

D) $m \times 9$

Answer: B

Explanation: A)
B)
C)
D)

Write in expanded notation.

250) 30,150 250) _____

A) $30,000 + 1000 + 50$

B) $30,000 + 100 + 50$

C) $3000 + 100 + 5$

D) $3000 + 10 + 5$

Answer: B

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

251) seven cubed 251) _____

A) 3^7

B) $7 \cdot 3$

C) 7^3

D) $\frac{7}{3}$

Answer: C

Explanation: A)
B)
C)
D)

Use the distributive property to simplify.

252) $6(x + 3)$

A) $6x + 9$

B) $6x + 3$

C) $x + 18$

D) $6x + 18$

252) _____

Answer: D

Explanation: A)
B)
C)
D)

Evaluate.

253) $6 \cdot 4 + 7(3 - 2) + 4$

A) 47

B) 59

C) 70

D) 35

253) _____

Answer: D

Explanation: A)
B)
C)
D)

Use the formula $\text{Bonus} = x + y + 375$ to calculate the yearly bonus for the employee. (x represents the number of productivity units earned and y represents the number of years of employment)

Employee name	Employee number	Years of employment	Productivity units earned
Mary Smith	314	13	160
John Patel	251	5	202
Sue Jones	647	8	198

254) Calculate John Patel's yearly bonus.

A) 577

B) 380

C) 582

D) 207

254) _____

Answer: C

Explanation: A)
B)
C)
D)

Solve the problem.

255) Round 316,421 to the nearest ten thousand.

A) 316,000

B) 310,000

C) 320,000

D) 400,000

255) _____

Answer: C

Explanation: A)
B)
C)
D)

Combine like terms.

256) $6ab + 3a + 15 + 2ab$

A) $8ab + 3a + 15$

B) $11a^2b + 15$

C) $11ab + 15$

D) $11a + 8b + 15$

256) _____

Answer: A

Explanation: A)
B)
C)
D)

Rewrite using numbers and an inequality symbol.

257) Eleven is less than eighteen.

A) $11 > 18$

B) $11 < 18$

C) $18 < 11$

D) $0 < 18$

257) _____

Answer: B

Explanation: A)
B)
C)
D)

Translate into an equation, and then solve the equation.

258) Double what number times 4 equals sixteen?

A) $2x = 4 \cdot 16; 2$

B) $2x \cdot 4 = 16; 2$

C) $2x \cdot 4 = 16; 32$

D) $2x = 4 \cdot 16; 32$

258) _____

Answer: B

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

259) Sixteen less than some number

A) $p - 16$

B) $16 - p$

C) $16 \div p$

D) $p - 17$

259) _____

Answer: A

Explanation: A)
B)
C)
D)

Write in exponent form.

260) $6 \cdot 6$

A) 6^2

B) 6^1

C) $2 \cdot 6$

D) 2^6

260) _____

Answer: A

Explanation: A)
B)
C)
D)

Add.

261)

$$\begin{array}{r} 7 \\ 2 \\ 8 \\ 9 \\ + 3 \\ \hline \end{array}$$

261) _____

A) 29

B) 32

C) 30

D) 27

Answer: A

Explanation: A)
B)
C)
D)

Subtract and check.

262)

$$\begin{array}{r} 60,000 \\ - 47,666 \\ \hline \end{array}$$

262) _____

A) 97,666

B) 27,666

C) 12,334

D) 96,774

Answer: C

Explanation: A)
B)
C)
D)

Determine the place value of the digit 3 in the whole number.

263) 37,661,254

A) ten millions

B) millions

C) ten thousands

D) tens

263) _____

Answer: A

Explanation: A)
B)
C)
D)

Divide and check your answer.

264) $244,473 \div 250$

A) 977 R223

B) 223

C) 977

D) 977 R213

264) _____

Answer: A

Explanation: A)
B)
C)
D)

Evaluate.

265) 10^6

A) 600

B) 100,000

C) 10,000,000

D) 1,000,000

265) _____

Answer: D

Explanation: A)
B)
C)
D)

Subtract.

266) $10 - 10$

A) 0

B) 9

C) 10

D) 1

266) _____

Answer: A

Explanation: A)
B)
C)
D)

Solve the problem.

- 267) An apartment complex replaced various appliances in the building and billed each tenant a one-time assessment fee for the update. Use the chart below to calculate the cost per apartment unit if there are 31 units.

267) _____

JOHN'S APPLIANCES			INVOICE NO.
Bill To: ABC Apartment Complex 123 Main Street Johnsbury, IL 60123			00356
Quantity	Item Description	Unit Price	Total
20	Quiet Motor Dishwasher	\$490	
20	Econo Refrigerator	\$380	
12	Super Cycle Washers	\$550	
Total Cost for all Items			

A) \$916.13

B) \$741.94

C) \$45.81

D) \$774.19

Answer: D

Explanation: A)
B)
C)
D)

Rewrite using numbers and an inequality symbol.

- 268) Three is less than eight.

268) _____

A) $3 < 8$

B) $8 < 3$

C) $0 < 8$

D) $3 > 8$

Answer: A

Explanation: A)
B)
C)
D)

Multiply.

- 269)

269) _____

$$\begin{array}{r} 246 \\ \times 47 \\ \hline \end{array}$$

A) 11,662

B) 11,572

C) 11,562

D) 11,552

Answer: C

Explanation: A)
B)
C)
D)

Combine like terms.

- 270) $8xy + 2y + 5xy - 13$

270) _____

A) $15xy - 13$

B) $15xy^2 - 13$

C) $13xy + 2y - 13$

D) $13x + 15y - 13$

Answer: C

Explanation: A)
B)
C)
D)

Use the Mathematics Blueprint for Problem Solving to solve.

271) Tammy wanted to determine the gas mileage she was getting on her car. She filled the gas tank on her car when the odometer read 23,303 miles. After 9 days the odometer read 23,627 miles and it took 12 gallons of gas to fill the tank. How many miles to the gallon did Tammy's car achieve?

271) _____

- A) 27 miles per gallon
- C) 324 miles per gallon

- B) 319 miles per gallon
- D) 36 miles per gallon

Answer: A

Explanation: A)
B)
C)
D)

Combine like terms.

272) $7y - 2y$

272) _____

A) $9y$

B) $5y$

C) 5

D) $10y$

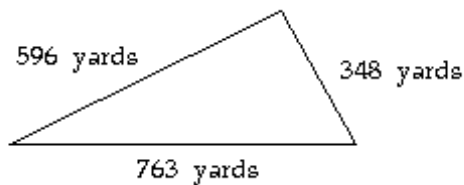
Answer: B

Explanation: A)
B)
C)
D)

Find the perimeter of the figure.

273)

273) _____



A) 1696 yards

B) 2055 yards

C) 1707 yards

D) 1828 yards

Answer: C

Explanation: A)
B)
C)
D)

Evaluate.

274) $\frac{a^2 - 16}{b}$ if $a = 5$ and $b = 1$

274) _____

A) 9

B) 11

C) 41

D) 10

Answer: A

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

275) fourteen squared

A) 2^{14}

B) $14 \cdot 2$

C) $\frac{14}{2}$

D) 14^2

275) _____

Answer: D

Explanation: A)
B)
C)
D)

276) Eight subtracted from a number

A) $8n$

B) $n - 8$

C) $n - 9$

D) $8 - n$

276) _____

Answer: B

Explanation: A)
B)
C)
D)

277) The difference of sixteen and thirteen

A) $16 - 14$

B) $16 - x$

C) $13 - 16$

D) $16 - 13$

277) _____

Answer: D

Explanation: A)
B)
C)
D)

Determine the place value of the digit 3 in the whole number.

278) 7830

A) hundreds

B) ones

C) thousands

D) tens

278) _____

Answer: D

Explanation: A)
B)
C)
D)

Use the distributive property to simplify.

279) $2(y + 3) + 4$

A) $2y + 2$

B) $2y + 6 + 4$

C) $2y + 7$

D) $2y + 10$

279) _____

Answer: D

Explanation: A)
B)
C)
D)

Determine the place value of the digit 3 in the whole number.

280) 493,141

- A) hundred thousands
C) ten thousands

- B) hundreds
D) thousands

280) _____

Answer: D

Explanation: A)
B)
C)
D)

Evaluate.

281) $\frac{(m^2 - 4)}{n}$ for $m = 5$ and $n = 3$

A) 10

B) 8

C) 9

D) 7

281) _____

Answer: D

Explanation: A)
B)
C)
D)

Translate into an equation. Do not solve the equation.

282) Let B represent Michael's checking account balance. Michael's checking account balance decreased by \$29 equals \$300.

A) $B - 29 = 300$

B) $29 - 300 = B$

C) $29 = B - 300$

D) $B + 29 = 300$

282) _____

Answer: A

Explanation: A)
B)
C)
D)

Subtract.

283) $11 - 0$

A) 10

B) 0

C) 11

D) 1

283) _____

Answer: C

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

284) The quotient of six and ninety-six

A) $96 \div 6$

B) $96 - 6$

C) $6 \div 96$

D) $6 - 96$

284) _____

Answer: C

Explanation: A)
B)
C)
D)

Use the Mathematics Blueprint for Problem Solving to solve.

- 285) Alex sold his used lawn tractor and accessories for \$324. If he received three times as much money for the lawn tractor as he did for the accessories, find how much money he received for the lawn tractor. 285) _____

A) \$243 B) \$813 C) \$972 D) \$91

Answer: A

Explanation: A)
B)
C)
D)

Multiply.

- 286) $7 \cdot 5 \cdot 0 \cdot 9$ 286) _____

A) 0 B) 26 C) 315 D) 320

Answer: A

Explanation: A)
B)
C)
D)

Write the division statement that corresponds to the situation. Do not carry out the division.

- 287) A dinner bill totaling \$n was split among 14 people. 287) _____

A) $14 - \$n$ B) $14 \div \$n$ C) $\$n \div 14$ D) $\$n - 14$

Answer: C

Explanation: A)
B)
C)
D)

Identify the factors and the product in the equation.

- 288) $6(9) = 54$ 288) _____

A) factors: 6, 54 B) factor: 54 C) factors: 6, 9 D) factors: 9, 54
product: 9 product: $6(9)$ product: 54 product: 6

Answer: C

Explanation: A)
B)
C)
D)

Write in expanded notation.

- 289) 2958 289) _____

A) $200 + 50 + 9$ B) $8000 + 500 + 90 + 2$
C) 2,958,000 D) $2000 + 900 + 50 + 8$

Answer: D

Explanation: A)
B)
C)
D)

Replace the question mark with inequality symbol < or >.

290) $33 \text{ ? } 30$

A) >

B) <

290) _____

Answer: A

Explanation: A)
B)

Translate using numbers and symbols.

291) a number plus eight

A) $8y$

B) $y + 8$

C) $8 - y$

D) $y \times 8$

291) _____

Answer: B

Explanation: A)
B)
C)
D)

Evaluate.

292) $6 + (8 + 4^3)$

A) 518

B) 30

C) 66

D) 78

292) _____

Answer: D

Explanation: A)
B)
C)
D)

Evaluate for the given values.

293) Evaluate $x - 1$ if x is equal to 4.

A) 1

B) 4

C) 3

D) 2

293) _____

Answer: C

Explanation: A)
B)
C)
D)

Combine like terms.

294) $6xy + 2b + 7xy$

A) $15xy + b$

B) $15xyb$

C) $2xy + 13b$

D) $13xy + 2b$

294) _____

Answer: D

Explanation: A)
B)
C)
D)

Write in expanded notation.

295) 63,303,005

295) _____

- A) $63,000,000 + 303,000 + 5$
- B) $60,000,000 + 3,000,000 + 300,000 + 300 + 5$
- C) $60,000,000 + 3,000,000 + 300,000 + 3000 + 5$
- D) $60,000,000 + 300,000 + 30,000 + 3000 + 5$

Answer: C

Explanation: A)
B)
C)
D)

Use the distributive property to simplify.

296) $6(x - 7)$

296) _____

- A) $6x - 13$
- B) $x - 42$
- C) $6x - 42$
- D) $6x - 7$

Answer: C

Explanation: A)
B)
C)
D)

Evaluate.

297) $8^2 + 7^2 - 30 + 29$

297) _____

- A) 3135
- B) 224
- C) 112
- D) 29

Answer: C

Explanation: A)
B)
C)
D)

Combine like terms.

298) $11xy + 7 + 4xy + 6$

298) _____

- A) $13xy + 15$
- B) $15xy + 7 + 6$
- C) $15x + 15y + 13$
- D) $15xy + 13$

Answer: D

Explanation: A)
B)
C)
D)

Solve.

299) In a distant solar system the diameter of planet A is 7 times as great as the diameter of planet B. The diameter of planet B is 877 miles. Find the diameter of planet A.

299) _____

- A) 6039 mi.
- B) 6129 mi.
- C) 6139 mi.
- D) 6132 mi.

Answer: C

Explanation: A)
B)
C)
D)

Answer yes or no.

300) Is 13 a solution to the equation $18 + x = 5$?

A) Yes

B) No

300) _____

Answer: B

Explanation: A)
B)

Evaluate.

301) $6 \cdot 3^2$

A) 54

B) 18

C) 24

D) 15

301) _____

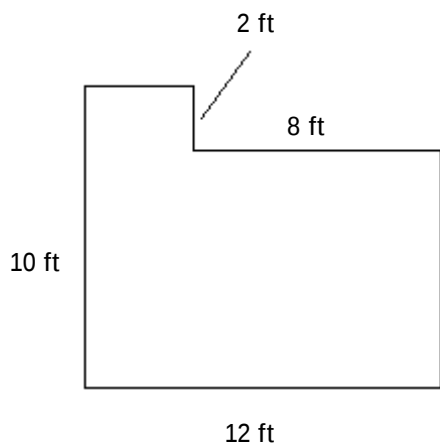
Answer: A

Explanation: A)
B)
C)
D)

Find the perimeter of the figure made of rectangles.

302)

302) _____



A) 36 ft

B) 40 ft

C) 42 ft

D) 44 ft

Answer: D

Explanation: A)
B)
C)
D)

Simplify.

303) $x + 7 + 4$

A) 11

B) $11x$

C) $x + 12$

D) $x + 11$

303) _____

Answer: D

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

304) Six times a number

A) $6x$

B) $6 - x$

C) $\frac{6}{x}$

D) $6 + x$

304) _____

Answer: A

Explanation: A)
B)
C)
D)

305) Forty-eight dollars divided equally among six people

A) $48 - 6$

B) $6 - 48$

C) $48 \div 6$

D) $6 \div 48$

305) _____

Answer: C

Explanation: A)
B)
C)
D)

Divide and check your answer.

306) $1992 \div 514$

A) 42 R43

B) 42 R5

C) 39 R3

D) 39

306) _____

Answer: C

Explanation: A)
B)
C)
D)

Evaluate.

307) $7x - 2y$ for $x = 8$ and $y = 4$

A) 52

B) 54

C) 48

D) 64

307) _____

Answer: C

Explanation: A)
B)
C)
D)

Write as repeated multiplication.

308) 8^7

A) $8 \cdot 8 \cdot 8 \cdot 8 \cdot 8 \cdot 8 \cdot 8$

C) $8 + 8 + 8 + 8 + 8 + 8 + 8$

B) $8 \cdot 8 \cdot 8 \cdot 8 \cdot 8 \cdot 8 \cdot 8$

D) $7 \cdot 8$

308) _____

Answer: B

Explanation: A)
B)
C)
D)

Translate into an equation. Do not solve the equation.

309) Let S represent Kerry's monthly salary. Kerry's monthly salary decreased by \$900 equals \$1260. 309) _____

A) $S = 1260 - 900$

B) $S + 900 = 1260$

C) $S - 900 = 1260$

D) $S \div 900 = 1260$

Answer: C

Explanation: A)
B)
C)
D)

Answer yes or no.

310) Is 15 a solution to the equation $x + 9 = 24$? 310) _____

A) Yes

B) No

Answer: A

Explanation: A)
B)

Write the division statement that corresponds to the situation. Do not carry out the division.

311) A group of friends go to lunch at a restaurant. The bill for the meal is \$38.00. How much should each person contribute if there are n people? 311) _____

A) \$38.00

B) $n \div \$38.00$

C) $\$38.00n$

D) $\$38.00 \div n$

Answer: D

Explanation: A)
B)
C)
D)

Evaluate.

312) $7^2 - 2 \cdot 4$

A) 41

B) 140

C) 188

D) 100

312) _____

Answer: A

Explanation: A)
B)
C)
D)

Subtract and check.

313)

85

- 42

A) 53

B) 127

C) 39

D) 43

313) _____

Answer: D

Explanation: A)
B)
C)
D)

Replace the question mark with inequality symbol < or >.

314) $0 ? 27$

A) <

B) >

314) _____

Answer: A

Explanation: A)
B)

Translate using numbers and symbols.

315) The difference of eighteen and x

A) $18 \div x$

B) $18 - x$

C) $x - 18$

D) $19 - x$

315) _____

Answer: B

Explanation: A)
B)
C)
D)

Add.

316)

$$\begin{array}{r} 267 \\ + 578 \\ \hline \end{array}$$

316) _____

A) 829

B) 835

C) 845

D) 728

Answer: C

Explanation: A)
B)
C)
D)

Solve.

317) A frequent-flyer program offered by many major airlines to first-class passengers awards 3 frequent-flyer mileage points for every 2 miles flown. How many frequent-flyer points would Karen accumulate if she flew first-class 9000 miles?

317) _____

A) 27,000 points

B) 6000 points

C) 9000 points

D) 13,500 points

Answer: D

Explanation: A)
B)
C)
D)

Evaluate.

318) Evaluate $x + y$, if x is 7 and y is 9.

318) _____

A) 63

B) 16

C) 17

D) $7x + 9y$

Answer: B

Explanation: A)
B)
C)
D)

Solve.

- 319) An apartment complex has 5 apartment buildings. Each building has 5 floors with 6 apartments per floor. Find how many apartments are in this complex. 319) _____
- A) 150 apartments B) 140 apartments C) 160 apartments D) 16 apartments

Answer: A

Explanation: A)
B)
C)
D)

Use the Mathematics Blueprint for Problem Solving to solve.

- 320) Yvonne decided to drive home from college to visit her family during Spring Break. Her odometer read 12,464 when she started the trip and 14,015 when she arrived home. She started and ended the trip on a full tank of gas. She made gas purchases of 13 gallons, 10.9 gallons, 10.7 gallons and 11.8 gallons for the car during the trip. How many miles per gallon did the car get on the trip? 320) _____
- A) 16.71 miles per gallon B) 0.03 mile per gallon
C) 571 miles per gallon D) 33 miles per gallon

Answer: D

Explanation: A)
B)
C)
D)

Write in exponent form.

- 321) $9 \cdot 9 \cdot x \cdot x \cdot x \cdot x$ 321) _____
- A) $2 \cdot 9 \cdot x^4$ B) $9^2 x^2$ C) $2^9 x^4$ D) $9^2 x^4$

Answer: D

Explanation: A)
B)
C)
D)

- 322) $5 \cdot 5 \cdot 5 \cdot a \cdot a \cdot a \cdot b \cdot b$ 322) _____
- A) $5^3 a^2 b^3$ B) $5^3 a^3 b^2$ C) $5^2 a^3 b^2$ D) $3^5 a^3 b^2$

Answer: B

Explanation: A)
B)
C)
D)

Evaluate.

- 323) $8x - 5y$ if x is equal to 4 and y is equal to 4 323) _____
- A) 27 B) 52 C) 12 D) 28

Answer: C

Explanation: A)
B)
C)
D)

Multiply.

324) $3(8)(y \cdot 4)$

A) 96

B) $86y$

C) $96y$

D) $196y$

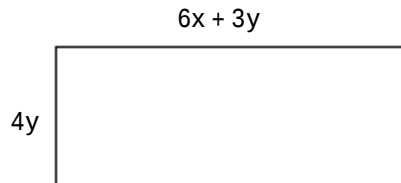
324) _____

Answer: C

Explanation: A)
B)
C)
D)

Write the perimeter of the figure as an algebraic expression and simplify.

325)



325) _____

A) $20x + 6y$

B) $10x + 3y$

C) $6x + 7y$

D) $12x + 14y$

Answer: D

Explanation: A)
B)
C)
D)

Multiply.

326) $6(9)(0 \cdot x)$

A) 54

B) x

C) 0

D) $54x$

326) _____

Answer: C

Explanation: A)
B)
C)
D)

Subtract and check.

327)

$$\begin{array}{r} 582,052 \\ - 266,781 \\ \hline \end{array}$$

327) _____

A) 316,171

B) 325,271

C) 315,171

D) 315,271

Answer: D

Explanation: A)
B)
C)
D)

Solve and check your answer.

328) $7x = 14$

A) 2

B) 98

C) 4

D) 3

328) _____

Answer: A

Explanation: A)
B)
C)
D)

Solve.

329) A rancher plans to have 224 square feet of pasture for each cow on his field. If the area of the field is 36,288 square feet, how many cows should the rancher allow in the field? 329) _____

A) 162 cows

B) 155 cows

C) 171 cows

D) 36,064 cows

Answer: A

Explanation: A)
B)
C)
D)

Translate into an equation. Do not solve the equation.

330) Let B represent Michael's checking account balance. Michael's checking account balance plus \$25 equals \$300. 330) _____

A) $25 + 300 = B$

B) $B + 25 = 300$

C) $25 = B + 300$

D) $B - 25 = 300$

Answer: B

Explanation: A)
B)
C)
D)

Solve and check your answer.

331) $28 - n = 23$

A) 7

B) 4

C) 5

D) 6

331) _____

Answer: C

Explanation: A)
B)
C)
D)

Solve.

332) Lew is installing an invisible fence in his back yard which measures 104 feet by 66 feet by 85 feet by 96 feet. How many feet of wiring is needed to enclose his yard? 332) _____

A) 371 ft

B) 341 ft

C) 361 ft

D) 351 ft

Answer: D

Explanation: A)
B)
C)
D)

Subtract and check.

333)

$$\begin{array}{r} 6547 \\ - 2383 \\ \hline \end{array}$$

A) 4158

B) 4078

C) 4164

D) 6164

Answer: C

Explanation: A)
B)
C)
D)

333) _____

Write in exponent form.

334) $9 \cdot 9 \cdot 9 \cdot 9 \cdot 9$

A) $5 \cdot 9$

B) 9^5

C) 5^9

D) 9^0

Answer: B

Explanation: A)
B)
C)
D)

334) _____

Translate using numbers and symbols.

335) a number increased by four

A) $n \times 4$

B) $n + 4$

C) $4n$

D) $n - 4$

Answer: B

Explanation: A)
B)
C)
D)

335) _____

Use the Mathematics Blueprint for Problem Solving to solve.

336) Alice and Emmett collect baseball cards. Alice has ten times the number of baseball cards that Emmett has. Together they have 187 baseball cards. Find how many baseball cards Alice has.

A) 170 baseball cards

B) 177 baseball cards

C) 1870 baseball cards

D) 1710 baseball cards

Answer: A

Explanation: A)
B)
C)
D)

336) _____

Evaluate.

337) $49 + 7 \div 7 + 6 \times 2$

A) 20

B) 62

C) 61

D) 19

Answer: B

Explanation: A)
B)
C)
D)

337) _____

Identify the factors and the product in the equation.

338) $5x = 20$

A) factors: 5, x
product: 20

B) factor: 20
product: 5x

C) factor: x
products: 5, 20

D) factors: 5, 20
product: x

338) _____

Answer: A

Explanation: A)
B)
C)
D)

Draw two arrays to represent the product.

339) 2 times 4

A)

** **
** **

B)

*** **
*** **
 **
 **

C)

**** **
**** **
 **
 **

D)

**** **
**** **
 **
 **

339) _____

Answer: C

Explanation: A)
B)
C)
D)

Use the commutative and/or associative property of addition and then simplify.

340) $(7 + p + 1) + 3$

A) $p + 11$

B) $8p + 3$

C) 11

D) $p + 10$

340) _____

Answer: A

Explanation: A)
B)
C)
D)

Multiply.

341) $3(6)(4 \cdot z)$

A) $172z$

B) $62z$

C) 72

D) $72z$

341) _____

Answer: D

Explanation: A)
B)
C)
D)

Add.

342) $13,189 + 6 + 1604$

A) 14,789

B) 14,799

C) 13,799

D) 14,809

342) _____

Answer: B

Explanation: A)
B)
C)
D)

Write the word name for the number.

343) 235,060

A) Twenty-three thousand, five hundred six

B) Two hundred thirty-five thousand, sixty

C) Twenty-three thousand, five hundred sixty

D) Two million, thirty-five thousand, sixty

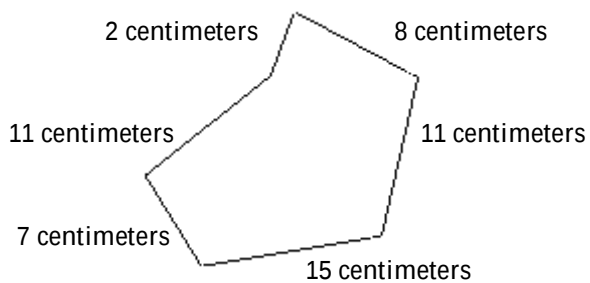
343) _____

Answer: B

Explanation: A)
B)
C)
D)

Find the perimeter of the figure.

344)



344) _____

A) 61 centimeters

B) 50 centimeters

C) 54 centimeters

D) 43 centimeters

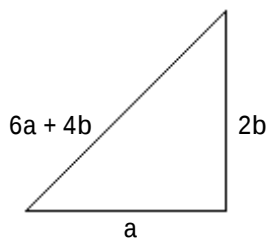
Answer: C

Explanation: A)
B)
C)
D)

Write the perimeter of the figure as an algebraic expression and simplify.

345)

345) _____



A) $7a + 6b$

B) $7a + 4b$

C) $6a + 6b$

D) $6a + 7b$

Answer: A

Explanation: A)
B)
C)
D)

Solve.

346) An election for student body president was held over 3 days. On the first day Todd received 159 votes and Carol received 355 votes. On the second day Todd received 143 votes and Carol received 167 votes. On the third day Todd received 131 votes and Carol received 391 votes. How many votes did Carol receive?

346) _____

A) 433 votes

B) 441 votes

C) 701 votes

D) 913 votes

Answer: D

Explanation: A)
B)
C)
D)

Evaluate.

347) $3^3 - 2 + 7$

347) _____

A) 14

B) 18

C) 22

D) 32

Answer: D

Explanation: A)
B)
C)
D)

Combine like terms.

348) $8m - m$

348) _____

A) $8m$

B) $8m + m$

C) $9m$

D) $7m$

Answer: D

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

349) The quotient of seventy-two and three

A) $3 - 72$

B) $72 \div 3$

C) $72 - 3$

D) $3 \div 72$

349) _____

Answer: B

Explanation: A)
B)
C)
D)

Solve the problem.

350) Round 37,077 to the nearest thousand.

A) 37,000

B) 47,000

C) 38,000

D) 37,100

350) _____

Answer: A

Explanation: A)
B)
C)
D)

Evaluate.

351) $7^2 - 4 \cdot 7$

A) 63

B) 315

C) 147

D) 21

351) _____

Answer: D

Explanation: A)
B)
C)
D)

Combine like terms.

352) $6x + x$

A) $6x + x$

B) $6x$

C) $7x$

D) $5x$

352) _____

Answer: C

Explanation: A)
B)
C)
D)

Evaluate.

353) $4^2 - 2^2 + 5 \times 4$

A) 24

B) -8

C) 32

D) 68

353) _____

Answer: C

Explanation: A)
B)
C)
D)

Multiply.

354) $7(6b)$

A) $32b$

B) $35b$

C) $42b$

D) $420b$

354) _____

Answer: C

Explanation: A)
B)
C)
D)

Write in exponent form.

355) $2 \cdot 2 \cdot 2 \cdot y \cdot y \cdot z$

A) 2^3y^2

B) $2^3y^2z^2$

C) $2^2y^2z^1$

D) $2^3y^2z^1$

355) _____

Answer: D

Explanation: A)
B)
C)
D)

Translate using numbers and symbols.

356) Seven minus a number

A) $7y$

B) $y - 7$

C) $8 - y$

D) $7 - y$

356) _____

Answer: D

Explanation: A)
B)
C)
D)

Answer Key
Testname: C1

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

Answer Key
Testname: C1

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

Answer Key
Testname: C1

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

Answer Key
Testname: C1

- 151) D
- 152) A
- 153) D
- 154) C
- 155) A
- 156) D
- 157) D
- 158) D
- 159) D
- 160) A
- 161) D
- 162) C
- 163) A
- 164) B
- 165) A
- 166) C
- 167) A
- 168) C
- 169) A
- 170) B
- 171) A
- 172) A
- 173) D
- 174) D
- 175) D
- 176) B
- 177) A
- 178) D
- 179) C
- 180) A
- 181) B
- 182) A
- 183) C
- 184) B
- 185) A
- 186) C
- 187) A
- 188) B
- 189) C
- 190) B
- 191) D
- 192) B
- 193) C
- 194) C
- 195) A
- 196) A
- 197) B
- 198) A
- 199) D
- 200) B

Answer Key
Testname: C1

- 201) C
- 202) D
- 203) D
- 204) A
- 205) D
- 206) C
- 207) A
- 208) B
- 209) A
- 210) B
- 211) C
- 212) C
- 213) D
- 214) B
- 215) D
- 216) D
- 217) B
- 218) D
- 219) D
- 220) B
- 221) B
- 222) D
- 223) C
- 224) C
- 225) C
- 226) B
- 227) B
- 228) C
- 229) B
- 230) C
- 231) B
- 232) A
- 233) B
- 234) D
- 235) C
- 236) C
- 237) D
- 238) D
- 239) D
- 240) B
- 241) A
- 242) B
- 243) D
- 244) A
- 245) D
- 246) A
- 247) A
- 248) C
- 249) B
- 250) B

Answer Key
Testname: C1

- 251) C
- 252) D
- 253) D
- 254) C
- 255) C
- 256) A
- 257) B
- 258) B
- 259) A
- 260) A
- 261) A
- 262) C
- 263) A
- 264) A
- 265) D
- 266) A
- 267) D
- 268) A
- 269) C
- 270) C
- 271) A
- 272) B
- 273) C
- 274) A
- 275) D
- 276) B
- 277) D
- 278) D
- 279) D
- 280) D
- 281) D
- 282) A
- 283) C
- 284) C
- 285) A
- 286) A
- 287) C
- 288) C
- 289) D
- 290) A
- 291) B
- 292) D
- 293) C
- 294) D
- 295) C
- 296) C
- 297) C
- 298) D
- 299) C
- 300) B

Answer Key
Testname: C1

- 301) A
- 302) D
- 303) D
- 304) A
- 305) C
- 306) C
- 307) C
- 308) B
- 309) C
- 310) A
- 311) D
- 312) A
- 313) D
- 314) A
- 315) B
- 316) C
- 317) D
- 318) B
- 319) A
- 320) D
- 321) D
- 322) B
- 323) C
- 324) C
- 325) D
- 326) C
- 327) D
- 328) A
- 329) A
- 330) B
- 331) C
- 332) D
- 333) C
- 334) B
- 335) B
- 336) A
- 337) B
- 338) A
- 339) C
- 340) A
- 341) D
- 342) B
- 343) B
- 344) C
- 345) A
- 346) D
- 347) D
- 348) D
- 349) B
- 350) A

Answer Key

Testname: C1

351) D

352) C

353) C

354) C

355) D

356) D