## Prealgebra with P O W E R Learning 1st Edition Messersmith Test Bank

Full Download: http://testbanklive.com/download/prealgebra-with-p-o-w-e-r-learning-1st-edition-messersmith-test-bank/ MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Evaluate the expression for	the given values.			
1) $8r + 5$ for $r = 4$				1)
A) 37	B) 28	C) 32	D) 17	
2) $7h + 4$ for $h = -9$				2)
A) 2	в) -63	C) -59	D) -29	
3) $\frac{12c}{4-c}$ for $c = 8$				3)
A) 24	в) -24	C) -3	D) 3	
4) $5m + 3n$ for $m = 0$ ,	n = 7			4)
A) 35	в) 26	C) 21	D) 56	
5) $7g - 3h$ for $g = -8$ and	d $h = -3$			5)
A) 65	B) -47	C) -44	D) 231	
Write the product using exp	onents.			
6) 2 · 2 · 2	.,	· •		6)
A) 8 <sup>3</sup>	B) 2 <sup>3</sup>	C) 3 <sup>2</sup>	D) 8	
7) $a \cdot a \cdot a$				7)
A) 3 <sup>a</sup>	в) 3а	C) $a^{2}$	D) $a^3$	.,
8) <i>m · m · m · m · m · p</i>	$p \cdot p \cdot p \cdot p \cdot p \cdot p$			8)
A) 11 <i>mp</i>	B) <i>mp</i> <sup>11</sup>	C) $mp^{30}$	D) $m^{5}p^{6}$	
Evaluate the expression.				
9) $x^2$ when $x = 10$				9)
A) 100	в) 12	C) 1024	D) 20	
10) $a^2$ when $a = -9$				10)
A) -81	B) 18	C) 81	D) 512	
11) $4c^2$ when $c = -11$				11)
A) -88	B) 88	C) 1936	D) 484	
12) $-4m^3$ when $m = 6$				12)
A) 864	в) -864	C) 13,824	D) -13,824	

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List the terms and coefficients of the expression and identify the constant.	
13) $-9a^4 - 4b^2 - c - 8$	13)
A) Terms: $-9a^4$ , $-4b^2$ , -c; coefficients: 4, 2; constant -9	
B) Terms: $-9a^4$ , $-4b^2$ , -c, -8; coefficients: -9, -4, 0; constant -8	
C) Terms: $-9a^4$ , $-4b^2$ , -c; coefficients: 4, 2, 1; constant -9	
D) Terms: $-9a^4$ , $-4b^2$ , -c, -8; coefficients: -9, -4, -1; constant -8	
14) $-5x^5y^3 + 26x^4z^2 - 37x^3 + 22$	14)
A) terms: $-5x^5y^3$ , $26x^4z^2$ , $-37x^3$ , 22; coefficients: -5, 26, -37; constant 22	
B) terms: $-5x^5y^3$ , $26x^4z^2$ , $-37x^3$ , 22; coefficients: -5, 26, -37; constant -5	
C) terms: $-5x^5y^3$ , $26x^4z^2$ , $-37x^3$ ; coefficients: -5, 26, -37; constant 22	
D) terms: $-5x^5y^3$ , $26x^4z^2$ , $-37x^3$ ; coefficients: -5, 26, -37, 22; constant -5	

List the terms and coefficients of the expression and identify the constant. Then, evaluate the expression for the given values of the variables.

15) $-7u^2 - 2u - 4; u = 5$				15)
A) terms: $-7u^2$ , $-2$	2 <i>u</i> ; coefficients: -7, -2, -4; o	constant -4; value of e	expression: 1211	
B) terms: $-7u^2$ , $-2$	2 <i>u</i> , -4; coefficients: -7, -2; o	constant -4; value of e	expression: -189	
C) terms: $-7u^2$ , -2	2 <i>u</i> , -4; coefficients: -7, -2; o	constant -4; value of e	expression: 1211	
D) terms: $-7u^2$ , $-2$	2 <i>u</i> ; coefficients: -7, -2, -4; o	constant -4; value of e	expression: -189	
16) $m^3$ - mn - $8n^2$ ; $m =$	-4, <i>n</i> = -2			16)
A) terms: $m^3$ , -m	n, $-8n^2$ ; coefficients: $-8$ ; co	onstant: -8; value of ex	xpression -40	·
B) terms: $m^3$ , -m	n, $-8n^2$ ; coefficients: 1, -1,	-8; constant: 0; value	of expression -40	
C) terms: $m^3$ , -m	n, $-8n^2$ ; coefficients: 1, -1,	-8; constant: 0; value	of expression -104	
D) terms: $m^3$ , -m	n, $-8n^2$ ; coefficients: $-8$ ; co	onstant: -8; value of ex	xpression -104	
Use the commutative prop	erty to rewrite the expres	sion		
17) 6 + a	erty to rewrite the expres	51011.		17)
A) $6 + a + 0$	В) б <i>а</i>	C) a + 6	D) (1 + 5)a	
18) <i>b</i> · 8				18)
A) $b^8$	B) $\mathbf{b} \cdot 8 \cdot 1$ or $b8$	C) 8 · <i>b</i> or 8 <i>b</i>	D) 8 + <i>b</i>	·
Use the associative proper	ty to rewrite the expression	on, then simplify.		
19) $(k+19) + 2$	-	_ •		19)
A) $k + (19 + 2) =$	<i>k</i> + 21	B) 2 + (k + 19)		
C) $k + (19 + 2) =$	k + 21 = 21k	D) <i>k</i> + 2 + 19 + 2 =	= <i>k</i> + 23	

20) -3(11 <i>m</i> )	
A) $(11 - 3)m = 8m$	B) $(-3)(11) \cdot (-3)m = 99m$
C) $(-3 \cdot 11)m = -33m$	D) (11m)(-3)

20)

Rewrite the expression using the distributive property.

	21) 10( <i>d</i> + 12)				21)
	A) 120d	B) 22 <i>d</i>	C) 10 <i>d</i> + 12	D) 10 <i>d</i> + 120	
	22) $-4(r+6)$				22)
	A) 2r	B) -4 <i>r</i> - 24	C) -24 <i>r</i>	D) -4 <i>r</i> + 6	
	23) -4(-3 <i>x</i> - 10)				23)
	A) $12x + 40$	B) $-3x + 40$	C) 12 <i>x</i> - 10	D) 52 <i>x</i>	
	24) -( <i>p</i> - 29)				24)
	A) <i>p</i> + 29	B) - <i>p</i> + 29	C) - <i>p</i> - 29	D) <i>p</i> - 29	
Dete	ermine whether the followin	g groups of terms are	like terms.		
	25) $2m$ , $2n$ , $8$				25)
	A) no		B) yes		
	26) $3r$ , $-r^3$ , $3r^2$				26)
	A) no		B) yes		
	27) -7 <i>w</i> , 12 <i>w</i> , - <i>w</i> , 5 <i>w</i>				27)
	A) no		B) yes		
Con	ıbine like terms.				
	28) $2r + 11r$				28)
	A) 13r	в) 22 <i>r</i>	C) 9 <i>r</i>	D) 13 <i>r</i> <sup>2</sup>	
	29) - <i>d</i> + 17 <i>d</i>				29)
	A) 16d	в) -17 <i>d</i> <sup>2</sup>	C) 18 <i>d</i>	D) -17 <i>d</i>	
	30) 2 <i>a</i> + 2 - 9 <i>a</i> + 1				30)
	A) -7 <i>a</i> + 1	B) 7 <i>a</i> + 3	C) -7 <i>a</i> + 3	D) $-7a^2 + 3$	
	31) -19 <i>p</i> - 8 <i>p</i> + 4 + 7 + <i>p</i> - 5				31)
	A) -26 <i>p</i> + 6	B) -10 <i>p</i> + 6	C) 28 <i>p</i> + 17	D) 28 <i>p</i> + 6	

32) $x^2$ + 7x - 10 - 12 $x^2$ - x	- 12			32)
A) $-13x^2 - 6x + 22$		в) -13 <i>x</i> <sup>4</sup> - 6 <i>x</i> <sup>2</sup> -	+ 22	
C) $-11x^2 + 6x - 22$		D) $-11x^4 + 6x^2$	- 22	
Identify the following as eithe	er an expression, an	equation, or neither	r.	
33) $9x^2 + 6x - 6$				33)
A) neither	B) equation	on	C) expression	
34) $-4a + 7 = -1$				34)
A) equation	B) neithe	r	C) expression	
Which of the following are lin	near equations in or	ne variable?		
35) I. $y^2 + 5y + 5 = 0$ ; II.	$\frac{1}{5}w - 4(6w + 1) = 6;$	III. $3m - 2 + 4m + 6$		35)
A) II	B) III	C) I	D) II and III	
Determine whether the given	number is a solutio	n to the equation		
36) $9y + 4 = 40$ 4		n to the equation.		36)
A) no		B) yes		
37) $10t + 4 = -36; -4$				37)
A) yes		B) no		
Solve the equation.				
38) $z - 8 = -10$				38)
A) <i>z</i> = 18	B) <i>z</i> = -2	C) $z = 2$	D) <i>z</i> = -18	
SHORT ANSWER. Write the wor	rd or phrase that best c	ompletes each statemer	nt or answers the questior	1.
39) <i>c</i> – 27 = -24			39	)
40) $x + 9 = -1$			40	)
MULTIPLE CHOICE. Choose the	e one alternative that b	est completes the staten	nent or answers the quest	ion.
41) $26 = r + 5$				41)
A) <i>r</i> = 21	B) <i>r</i> = -31	C) <i>r</i> = -21	D) <i>r</i> = 31	,
42) $10p = 90$				42)
A) $p = 100$	B) <i>p</i> = 900	C) <i>p</i> = 9	D) <i>p</i> = 80	·,
43) $-3x = 18$				43)
A) <i>x</i> = -6	B) <i>x</i> = 6	C) <i>x</i> = 15	D) $x = 21$	·

44) $-40 = 8m$				44)
A) <i>m</i> = -32	B) <i>m</i> = -48	C) <i>m</i> = -5	D) <i>m</i> = 48	
45) $6 = -v$				45)
A) $m = 7$	B) <i>m</i> = -6	C) <i>m</i> = 6	D) <i>m</i> = 5	,
46) $3x + 8 = 2$				46)
A) $x = 0$	B) <i>x</i> = 2	C) <i>x</i> = 3	D) <i>x</i> = -2	
SHORT ANSWER. Write the word o	r phrase that best comple	tes each statement or answ	wers the question.	
47) 5 <i>k</i> - 13 = -28			47)	
MULTIPLE CHOICE. Choose the on	e alternative that best cor	npletes the statement or a	nswers the question.	
48) $21 = 3y + 3$				48)
A) <i>y</i> = -6	B) <i>y</i> = -5	C) <i>y</i> = 6	D) <i>y</i> = 4	
49) $-12 = 3 - 3w$				49)
A) <i>r</i> = 5	в) -3	C) <i>r</i> = -5	D) 3	
50) $8x - 7x + 9 = 10 - 8$				50)
A) 2	в) -2	C) -7	D) 7	
SHORT ANSWER. Write the word o	r phrase that best comple	tes each statement or answ	wers the question.	
51) 2(-1 - 3 <i>m</i> ) = -2			51)	
52) $-4(2y+3) + 4 = 0$			52)	
MULTIPLE CHOICE. Choose the on	e alternative that best cor	npletes the statement or a	nswers the question.	
53) -6 + 2 <i>b</i> - 3 - 2 <i>b</i> + <i>b</i> = -13				53)
A) <i>b</i> = -13	B) <i>b</i> = -22	C) <i>b</i> = 13	D) <i>b</i> = -4	
54) $-6(w - 3) + 5(w + 2) = 31$				54)
A) -15	B) 15	C) <i>w</i> = 3	D) <i>w</i> = -3	
55) $-8x - 5 = -3x - 10$				55)
A) <i>x</i> = 1	B) <i>x</i> = -1	C) $x = -3$	D) <i>x</i> = 3	
56) $-7y + 7 + y = -4y + 17$				56)
A) <i>y</i> = 12	B) <i>y</i> = -5	C) <i>y</i> = -12	D) <i>y</i> = 5	

	57) 2(4 <i>r</i> + 19) - 84 = 86 - A) <i>r</i> = 0	3(5 <i>r</i> - 2) B) <i>r</i> = 2	C) <i>r</i> = 6	D) <i>r</i> = 5	57)
	58) -2 - (-2w + 1) + 6w = A) w = 8	3(2w + 5) B) $w = -8$	C) <i>w</i> = 9	D) <i>w</i> = 0	58)
	59) 3(5 <i>h</i> - 4) + 4( <i>h</i> + 5) = A) <i>h</i> = 2	-h + 2(h + 1) + 6 B) $h = -4$	C) <i>h</i> = 5	D) <i>h</i> = 0	59)
Dete	<b>rmine whether the key w</b> 60) more than	ords indicate additio	on, subtraction, multi	plication, or division.	60)
	A) multiplication	B) division	C) addition	D) subtraction	
Writ	<b>e a mathematical expres</b> 61) Sixteen more than a n	sion and simplify, if j umber	possible. Use x to repr	resent the unknown q	uantity. 61)
	A) <i>x</i> - 16	B) <i>x</i> + 16	C) 16 <i>x</i> + 16	D) 16x	
	62) Eleven less than a nur A) 11 <i>x</i> - 11	nber В) <i>х</i> - 11	C) <i>x</i> + 11	D) 11 <i>x</i>	62)
	63) A number increased b A) $x + 21$	y twenty-one B) <i>x</i> - 21	C) 21 <i>x</i>	D) 21 <i>x</i> + 21	63)
	64) Sixteen more than twi A) $2(x + 16)$	ce a number B) $32x$	C) <i>x</i> + 32	D) $2x + 16$	64)
	65) 4 subtracted from the	quotient of a number 7	and 7	x	65)
	66) The sum of a number	and five times the number $5^{-1}$	nber $(2) 1 + 5$		66)
Writ	<ul> <li>A) x + 5x; 6x</li> <li>be the statement as an equence</li> <li>67) Twelve more than a non-</li> </ul>	B) 5x - 5 <b>ation, and find the r</b> umber is thirty-nine.	C) 1 + 5x	D) $x - 5x$ ; $-4x$	67)
	A) <i>x</i> + 39 = 12; -27		B) $x + 12 = 39;51$	I	
	C) $x + 12 = 39;27$		D) $12x = 39; \frac{13}{4}$		

68) Thirteen less than a num	ber is nineteen.			68)
A) $x + 19 = 13; 32$		B) <i>x</i> - 13 = 19; 32		
C) <i>x</i> - 13 = 19; 6		D) 13 - <i>x</i> = 19; -6		
69) Seventeen more than tw	ice a number is three.			69)
A) $2x + 3 = 17; 7$		B) 2 <i>x</i> - 17 = 3; -7		
C) $2x + 17 = 3;10$		D) $2x + 17 = 3; -7$		
70) Fifteen subtracted from	twice a number is -3.			70)
A) $2x + 15 = -3; 9$		B) 2 <i>x</i> - 15 = -3; 9		
C) $2x - 15 = -3; 6$		D) $2x - 3 = 15; 6$		
71) Nine less than three time	es a number is the same	as the number increase	ed by nineteen.	71)
A) 3 - $9x = x + 19; 3.3$	3	B) $3x - 9 = x + 19; 14$		
C) $3 - 9x = x + 19; 14$	Ļ	D) $3x - 9 = x + 19; 3.3$		
Answer the question.				
72) Wanda's income is \$533 income is \$39,420.	30 more than Pat's annu	al income. Find Pat's i	ncome if Wanda's	72)
A) \$34,190	в) \$44,750	C) \$28,760	D) \$34,090	
73) A rectangular throw rug	has an area of 1248 in <sup>2</sup>	. Find the width if it is	48 in. long.	73)
A) 24 in.	B) 26 in.	C) 35 in.	D) 13 in.	
74) Dema is twice as old as	Kandra. If Dema is 44 y	years old, how old is Ka	andra?	74)
A) 42 years old	B) 22 years old	C) 88 years old	D) 11 years old	
75) The area of a city public	pool is approximately	312 sq ft more than 26	times the area of	75)
the Adam's back yard po pool has an area of 13,20	ool. Find the area of the 50 sq ft.	back yard pool if the an	rea of the public	
A) 498 sq ft	B) 794 sq ft	C) 555 sq ft	D) 529 sq ft	
76) On Tuesday, a truck driv	ver travels 123 mi less t	han she traveled on Mo	onday. If the	76)
distance travelled on Mo	onday was 936 mi, what	t is the distance traveled	d on Tuesday?	
A) 1059 mi	B) 803 miles	C) 936 miles	D) 813 mi	
77) The number of men in th	ne room is 9 more than	the number of women i	n the room. If	77)
there are n women in the	e room, write an express	sion for the number of a	men in the room.	
A) $\frac{n}{9}$	В) 9 <i>п</i>	C) <i>n</i> + 9	D) <i>n</i> - 9	

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A) $23(3+x)$	B) 3 <i>x</i> + 23	C) $3(x + 23)$	D) 23 <i>x</i> + 3	
70) Pat needs to bring ?	16 cookies to her friend	l's party. She has alread	ly baked r cookies	70)
Write an algebraic e	expression for the numb	er of cookies Pat still n	eeds to bake.	(4)
A) 216 - x	B) 216 + <i>x</i>	C) <i>x</i> - 216	D) $\frac{216}{x}$	
30) An x-ray technician shoulder x-rays was	took a total of 104 ima 6 fewer than the knee	ges of shoulders and k k-rays. How many knee	nees. The number of x-rays were there?	80)
A) 52 knee x-rays		B) 98 knee x-rays		
C) 49 knee x-rays		D) 55 knee x-rays		
81) A farmer plants soy acres with soybeans	beans and corn on his 5 as with corn. How mar	10 acres of land. He plany acres are planted wit	ants twice as many h corn?	81)
A) 170 acres	B) 510 acres	C) 340 acres	D) 255 acres	
82) A gold pass to an ar total cost of one gol A) \$85	nusment park is \$30 mo d pass and one regular B) \$100	ore than twice the cost of pass is \$285, how much C) \$200	of a regular pass. If the a does a gold pass cost? D) \$185	82)
83) A 66 in long wire w	ill be cut into two piece	es so that one piece is to	wice as long as the	83)
A) 16.5 in	B) 49.5 in	C) 22 in	D) 44 in	
84) A triangle has a peri sides, one side is the remaining sides?	meter of 52.3 cm. One ree times as long as that	side is 23.1 cm. long. ( n the other. How long is	Of the two remaining s the shorter of the	84)
A) 5.5 cm	B) 7.3 cm	C) 21.9 cm	D) 16.5 cm	
85) A rectangular garde length of the garden	n plot is twice as long a ?	s it is wide. Its perimet	er is 72 ft. What is the	85)
A) 22 ft	B) 24 ft	C) 14 ft	D) 12 ft	
86) A 44-inch pipe mus	t be cut into three piece	s. The longest piece wi	ll be twice as long as	86)
the shortest piece, a	nd the medium-sized pi	ece will be 4 inches lor	nger than the shortest	

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