1	Select <i>all</i> expressions equivalent to $-90x + 60$.		
A.	-30(-3x+2)	B.	30(-3x+2)
C.	10(–9 <i>x</i> + 6)	D.	-10(9x-6)
E.	-10(9 <i>x</i> + 6)		
2	Select the expression equivalent to $(-18x - 12)$ -	- (–13	3x + 17).
A.	31 <i>x</i> – 29	В.	-5 <i>x</i> - 29
C.	-5 <i>x</i> + 5	D.	5 <i>x</i> + 5
3	Select the expression that is equal to $(9x + 3) - ($	5 <i>x</i> –	7).
A.	14 <i>x</i> – 4	B.	14 <i>x</i> + 10
C.	4x - 4	D.	4 <i>x</i> + 10
4	Which of the following is equivalent to $3(y-1+x)$	2 <i>y</i>)?	
A.	3 <i>y</i> – 9	B.	6 <i>y</i> – 3
C.	9 <i>y</i> – 3	D.	3 <i>y</i> – 3
5	Which expression is equivalent to $5(x - 0.8)$?		
A.	5 <i>x</i> – 0.8	В.	5 <i>x</i> – 0.4
C.	5 <i>x</i> – 4	D.	-5 <i>x</i> - 0.40
6	Select the expression equivalent to $(8.4x + 2.9)$ +	- (-3.	7 <i>x</i> + 5).
A.	-4.7 <i>x</i> + 7.9	B.	4.7 <i>x</i> + 7.9
C.	-12.1 <i>x</i> + 7.9	D.	12.1 <i>x</i> + 7.9

Irene is opening a lawn equipment rental business. She does not know how much equipment she 7 needs to purchase, but she does know the cost of the equipment. This is shown in the table below.

ltem	Cost	Amount to Purchase
Trimmer	\$195	X
Edger	\$195	У
Mower	\$295	Z

Which of the following expressions represent Irene's total cost to purchase her equipment? Select three that apply.

A.	195(<i>x</i> + <i>y</i> + 100 <i>z</i>)	B.	195(<i>x</i> + <i>y</i>) + 295 <i>z</i>
C.	195 <i>x</i> + 195 <i>y</i> + 295 <i>z</i>	D.	195(x + y + z + 100)
E.	195(x + y + z) + 100z	F.	195 + <i>x</i> + 195 + <i>y</i> + 295 + <i>z</i>

For options A–E choose all of the expressions that are equivalent to 3(4x + 3). 8

A.	12 <i>x</i> + 3	B.	3(3 + 4 <i>x</i>)
C.	7 <i>x</i> + 6	D.	4x + 3 + 4x + 3 + 4x + 3
E.	12 <i>x</i> + 9		

9 Mark is buying supplies for his students. He is buying a notebook (*n*) and a pack of pencils for each of his 25 students. Each pack of pencils costs \$1.25.

If Mark's total cost is \$156.25, which of the following equations can be used to find how much each notebook cost? Select two that apply.

A.	25(n) + 31.25 = 156.25	B.	1.25(<i>n</i>) + 25 = 156.25
C.	25(n) = 156.25 + 31.25	D.	25(n) = 156.25 - 31.25

10 Amir has a \$200 budget to spend on a graduation party for his son. He has already purchased \$122 worth of drinks and party supplies. He wishes to buy chicken, pizza, or subs for the main course. Prices (including tax) are shown below.

Food Price			
Chicken	\$1.10 per piece		
Pizza	\$11.75 per large		
Subs	\$6.80 per foot		

With Amir's budget, which of the following foods could he buy? Select three that apply.

A.	7 large pizzas	В.	10 large pizzas
C.	9 feet of subs	D.	11 feet of subs
E.	70 pieces of chicken	F.	71 pieces of chic

F. 71 pieces of chicken

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11 Yesterday, Chang planted 6 trees that were each 8 feet tall in his yard. Chang projects the trees to grow at the following annual rates over the next 5 years.

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Assume that *x* represents the amount of years from when Chang planted the trees. Which of the following equations represent the height of each of the trees in 5 years? Select *two* that apply.

A.	Sycamore $8 + 2.5x = 12.5$	B.	Sugar Maple 8 + 1.5 <i>x</i> = 15.5
C.	Red Maple $8x + 3 = 43$	D.	Fraser Fir 8 + 0.25 <i>x</i> = 9.25
E.	Linden $8x + 1.5 = 9.5$	F.	Oak 8 + 4 <i>x</i> = 28

12 What value of *y* makes the equation below true?

2y - 25 = 19

A.	44	B.	22
C.	-3	D.	-6

Bob bought a broken motor scooter, repaired it, and sold the scooter for \$130. That was \$50 less than 1.5 times what he paid for it.

Which equation can be used to find, *p*, the amount of money Bob initially paid for the broken scooter?

A.	130(1.5) - 50 = p	В.	130 - 50 = 1.5p
C.	130 = 50 - 1.5p	D.	130 = 1.5p - 50

14	Which of the following word problems can be so apply.	lved	using the equation $3x + 6 = 24$? Select two that			
A.	Julio already has 3 erasers. He buys erasers at a store that sells erasers in packs of 6. How many packs, x , of erasers does Julio buy if he ends up with 24 erasers?	B.	A bug crawls away from a wall at a constant rate of 3 inches per minute. If the bug is already 6 inches away from the wall, how many minutes, <i>x</i> , would it take the bug to be 24 inches away from the wall?			
C.	A class reading list contains 24 books. Renee has read 6 of the books and is planning on reading the same number of books each month for 3 months. How many books, <i>x</i> , does Renee need to read each month to complete the reading list?					
15	5 Which of these equations has a solution of $x = 2$? Select <i>three</i> that apply.					
A.	3(x+4) = 16x - 14	B.	5x - 11 = 6x - x - 11			
C.	4x + 9 = 2(2x + 9)	D.	12x + 7 = -(2x - 3) + 16x			
E.	$\left(\frac{1}{2}\right)x = 4$					
16	Which of these are solutions to the equation -6(3	3 <i>x</i> + 3	2) = 2 <i>x</i> – 5 – 20 <i>x</i> – 7? Select <i>all</i> that apply.			
A.	<i>x</i> = 2	B.	<i>x</i> = 4			
C.	<i>x</i> = 6					
17	What value of <i>x</i> makes this statement true?					
	3x + 4 = 9x - 8					
A.	-2	В.	1			
C.	2	D.	12			
18	Solve:					
	2(3r+4) - 3(r+1) = 11					
A.	0	B.	2			
C.	3	D.	16			

3

19	What value of <i>x</i> makes this statement true?		
	3x = 2x + 12		
A.	2	B.	5
C.	6	D.	12