Hawk Mastery 18 Name:_____

Situations → Equations

Choose the equations that corresponds with the given situation

1. Briana had 15 stuffed animals. She gave 3 of her friends an equal number of stuffed animals. Then, she decided to buy 5 more stuffed animals. Which equation could be used to find s, the number of stuffed animals has now after buying stuffed animals and giving some to x number of friends?

   A. s = 15 x 3 + 5
   B. s = 15 ÷ 3 + 5
   C. s = 15 ÷ 5 + 3
   D. s = 15 x 3 + 5

2. Perry spent 250 dollars last month on his phone bill. The phone company charges a one time fee of $49.99 and they charge .99 a minute. Which equation could be used to determine how many minutes (*m*) Perry has used this month?

A. 250 = 49.99 + .99m
B. 250= 49.99m + .99
C. 49.99 = 250 + .99m
D. 49.99 = 250m + .99

3. Andrew's scored twice as many points on his benchmark as Jimmy, plus 8 points. Which equation can be used to find Andrew's points, *a* when Jimmy received *j* points?

   A. a = j + (8 • 2)
   B. a = 2j + 8
   C. a = 2j – 8
   D. a = j + 8

4. A group of 10 friends are going to stay in Gaitlingburg for Christmas. They are splitting the cost of the cabin evenly. The cabin will cost $250.00 every night. Which equation can represent how much the cabin will cost per person.

   A) 250 + p = 10
   B) 250p = 10
   C) 10p = 250
   D) 10 + p = 250

5. Aeropostale was having a sale on Jeans. The discount , *d* , was applied to each pair of jeans at the register. Maryanne bought 2 pairs of jeans for $27.00 each and then Aeropostale took the discount off of each pair at the register. What equation can be used to show the total price her jeans (*t*)?

A. t = (2 x 27) – 2d
B. t = (2 x 27) – d
C. t = 27d – 2
D. t = (2 x 27) + 2d

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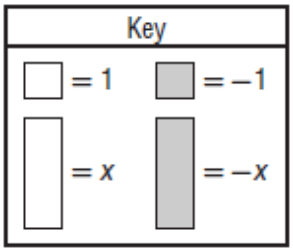
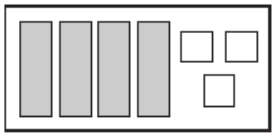
Algebra Tiles

Use the Key below to answer questions 1 - 5:



1.
Which model best represents $-3x + (-4)$?

F


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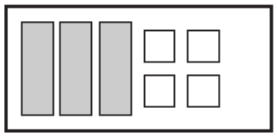
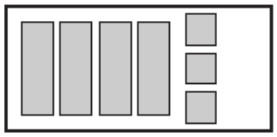
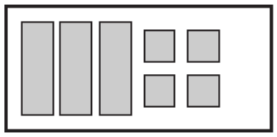
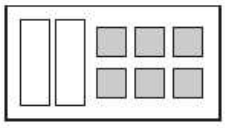


H


J


2.
Which expression is represented by this model?

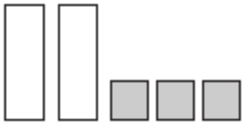


A $2x + 6$ C $2x + (-6)$
B $6x + (-2)$ D $6x + 2$

3.
Which set of algebra tiles represents **2(x – 3)?**

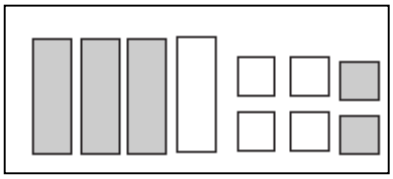
A)


B)


C)


D)

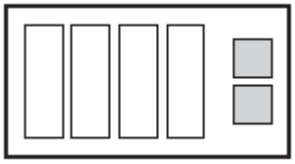

4. Which expression is represented by this model?



A) -3x + 4 C) x + 6

B) -2x + 2 D) -4x – 6

5. Which expression is represented by this model?



A) 4x + 2 C) 4x + (-2)

B) -4x + 2 D) x – 2

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