Introduction to Algebra

Math

Name_____ Class_____ Date_____

1 Which **equation** is represented by the following, three times the sum of a number and **5** is **33**?

A $3 \cdot n + 5 = 33$ **C** $3(n + 5) = 33$
B $n + 5 \cdot 3 = 33$ **D** $3(n - 5) = 33$

2 A number of friends buy **56** marbles and split them evenly. Each friend receives **14** marbles. Which **equation** represents this situation correctly?

A $\frac{n}{56} = 14$ **C** $56 - n = 14$
B $\frac{56}{n} = 14$ **D** $56 \cdot 14 = n$

3 In order to solve an equation with variables, the variable must be isolated first by using **inverse operations**.

True or false?

4 Solve using **inverse operations**:

$n - 83 = 19$

A 64

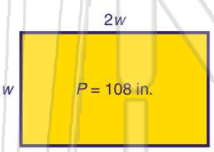
5

7

A \$5.59
B \$1.48
C \$1.19
D \$1.09

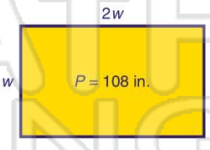
A 6
B 7
C 60
D 70

9 According to the figure shown, which **equation** would be correct to solve for the perimeter?



A $2w + w = 108$ **C** $\frac{108}{2w} = w$
B $2w + 2w = 108$ **D** $2(2w + w) = 108$

10 Given the figure shown, what is the **length** and **width** of the rectangle?



A $w = 13.5$ in., $\ell = 27$ in.
B $w = 18$ in., $\ell = 36$ in.
C $w = 27$ in., $\ell = 54$ in.
D $w = 36$ in., $\ell = 72$ in.

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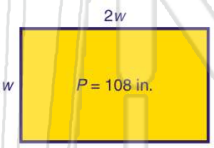

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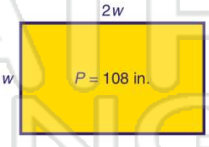

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