

NAME _____

DATE _____

PER. _____

SOLVING EQUATIONS W/LIKE TERMS

Solve each equation showing ALL steps.

1. $-3a - 8 + 2a = 13$

a = _____

2. $23 = \frac{1}{3}b - 2 + \frac{4}{3}b$

b = _____

3. $5 - 10c + 8c = 45 - 30$

c = _____

4. $3z - 5 + 9 = 3.4$

d = _____

5. $-0.2e + 5 + 0.6e = 30 + 7$

e = _____

6. $5f + 4f - 3f - 12f = 9$

f = _____

Write an equation for each situation and solve.

7. The length of a rectangle is twice the width. If the perimeter is 96 cm, find the length of the rectangle.



Equation: _____

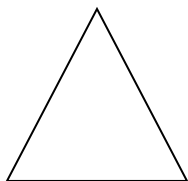
8. The length of a rectangle is 3 inches less than 4 times the width. If the perimeter is 55 inches, what is the width of the rectangle?

Equation: _____



9. The perimeter of a triangle is 137 cm. If the three sides of the triangle are $x + 7$ cm, $2x - 5$ cm, and $3x - 3$ cm, what is the length of each side?

Equation: _____



10. Jana and her sister went to a restaurant for dinner. Jana's dinner cost \$5 more than her sister's. If their combined bill was \$19 without tip, what was the price of Jana's dinner?

Equation: _____

11. Ashley is picking apples. She fills two baskets with apples and puts 5 apples in her pockets. The larger basket holds 35 more apples than the smaller one holds. If Ashley picks a total of 122 apples, how many apples does the larger basket hold?

Equation: _____

Answers in random order: 32, -21, 30, 6.1, 76, 66, 15, -5, 80, $\frac{-1}{5}$, $\frac{-3}{2}$, 41, 12