NAME_____**DATE**_____**PER.**_____

SOLVING MULTI-STEP EQUATIONS W/DISTRIBUTIVE PROPERTY & LIKE TERMS

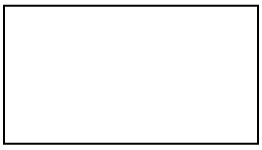
Solve each equation showing ALL steps. Check your solution on your calculator.

1. $-3x - 8 + 2x = 13$ x = _____	2. $48 = \frac{1}{3}(9n - 36)$ n = _____
3. $5(1 - 2b) + 8b = 15$ b = _____	4. $3(z - 5) + 8 = 1.7$ z = _____
5. $2(x + 4) - 4(x - 1) = 30$ x = _____	6. $(2h + 7) - (h + 6) + 3h = 9$ h=_____

Write an equation for each situation and solve.

7. The length of a rectangle is triple the width. If the perimeter is 104 cm, find the length of the rectangle.

Equation:_____

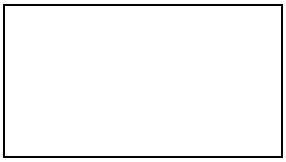


8. The sum of three consecutive integers is 30. Find the value of the three integers.

Equation:_____

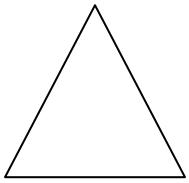
9. The perimeter of a rectangle is 68 km. If the length is 2 km less than three times the width, w, what is the length of the rectangle?

Equation:_____



10. The perimeter of a triangle is 47cm. If the longest side of the triangle is 4cm less than three times the shortest side and the third side is 6 cm more than the shortest side how long is the third side of the triangle?

Equation:_____



11. You have \$83 in your bank account. Each week you plan to deposit \$8 from your allowance and \$15 from your paycheck. The equation $b = 83 + (15 + 8)w$ gives the amount b in your bank after w weeks. How many weeks from now will you have \$175 in your bank account?

Answers in random order: 9, -21, 25, 20, 10, -5, 15, $\frac{29}{10}$ *or* 2.9, -9, 11, 2, 4, 39