

Solving Multi-Step Equations (7-2) HW

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For questions 1 and 2, FIRST write the equation described by the question, THEN solve.

- 1) How old am I if 400 reduced by 3 times my age is 190?
- 2) The sum of three consecutive even numbers is 90. What is the smallest of these numbers?

Solve each equation.

3) $-10n - 3 = -133$

4) $\frac{-10 + x}{2} = -15$

5) $-3r - 8r = 0$

6) $-4x - 4x = -8$

7) $-5(x - 1) = -30$

8) $-49 = -7(1 - 6x)$

9) $44 = -6(v - 7) - 5(2 - 2v)$

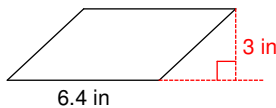
10) $-78 = -6(6 - 8n) - 3(6n + 4)$

11) $8(-3 + r) = -6(r + 4)$

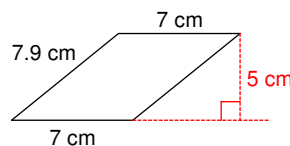
12) $-3x + 7x = 6(6x - 6) - (3x - 7)$

For a parallelogram, $A = bh$, where the area A is equal to the base b multiplied by the height h . Remember, height is always perpendicular to the base. Find the area of each parallelogram.

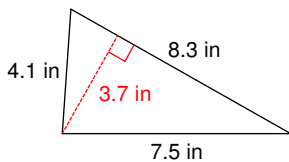
13)



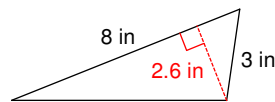
14)

**For a triangle, $A = \frac{1}{2}bh$, where the area A is equal to one-half times the base b times the height h .****Remember, height is always perpendicular to the base. Find the area of each triangle.**

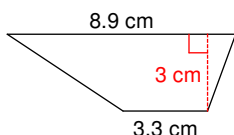
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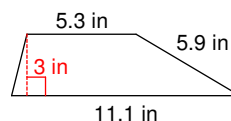
16)

**For a trapezoid, $A = \frac{1}{2}(b_1 + b_2)h$ where the area A is equal to the average of the bases b_1 and b_2 , multiplied by the height h . Remember, height is always perpendicular to the base. Find the area of each trapezoid.**

17)



18)



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Solve each equation.

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5) $-3r - 8r = 0$

{0}

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{1}

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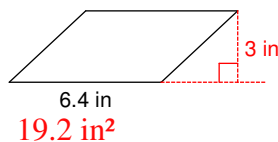
{0}

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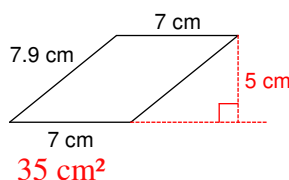
{1}

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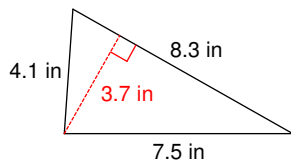
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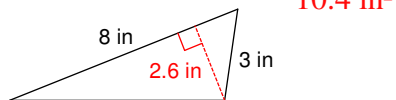
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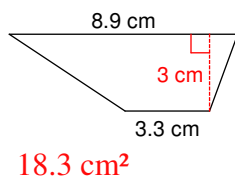
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