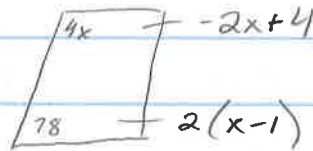
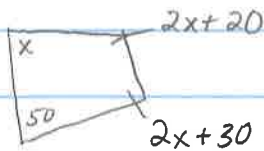


9/1 Algebra - Dowing

Warm-up

Angles of a quadrilateral add up to 360° , solve for x .



$$x + 2x + 20 + 2x + 30 + 50 = 360$$

$$5x + 100 = 360$$

$$\begin{array}{r} -100 \\ -100 \end{array}$$

$$\frac{5x = 260}{5 \quad 5}$$

$$x = 52$$

$$4x + -2x + 4 + 2(x-1) + 78 = 360$$

$$4x + -2x + 4 + 2x - 2 + 78 = 360$$

$$4x + 80 = 360$$

$$\begin{array}{r} -80 \\ -80 \end{array}$$

$$\frac{4x = 280}{4 \quad 4}$$

$$x = 70$$

Alice + Ben's ages are consecutive whole numbers.

The sum of their ages is 53. What is the age of each person.

$$\text{Alice} + \text{Ben} = 53$$

$$a + (a+1) = 53$$

$$2a + 1 = 53$$

$$\begin{array}{r} -1 \\ -1 \end{array}$$

$$\frac{2a = 52}{2 \quad 2}$$

$$a = 26$$

Alice is 26

Ben is 27

Carol, Dan and Edna's ages are consecutive whole numbers.
The sum of their ages is 27. What is the age of each person.

$$\text{Carol} + \text{Dan} + \text{Edna} = 27$$

$$c + (c+1) + (c+2) = 27$$

$$\begin{array}{r} 3c + 3 = 27 \\ \underline{-3 \quad -3} \end{array}$$

$$\begin{array}{r} 3c = 24 \\ \underline{\quad 3} \end{array}$$

$$c = 8$$

$$\text{Carol} = 8$$

$$\text{Dan} = 9$$

$$\text{Edna} = 10$$

Three consecutive integers add to 126. Write and solve an equation to find the three numbers.

$$x = 1^{\text{st}} \quad x+1 = 2^{\text{nd}} \quad x+2 = 3^{\text{rd}}$$

$$1^{\text{st}} + 2^{\text{nd}} + 3^{\text{rd}} = 126$$

$$x + x+1 + x+2 = 126$$

$$\begin{array}{r} 3x + 3 = 126 \\ \underline{-3 \quad -3} \end{array}$$

$$\begin{array}{r} 3x = 123 \\ \underline{\quad 3} \end{array}$$

$$x = 41$$

The numbers are
41, 42, 43

Go to www.join.quizizz.com

Game
CODE 552735

HW - Complete additional practice on game