

Check with substitution... and you'll always know your answer is right! *

Substitute your solution into the equation. Both sides should have the same value.

$$\frac{w}{-2} = 6 \times (-2)$$

$$w = 6 \times (-2)$$

$$w = 12$$

Check

Left Side

Right Side

$$= \frac{w}{-2}$$

$$6$$

$$= \frac{-12}{-2}$$

$$6$$

$$+ 6 = 6$$

Solve and Check:

$$\frac{d}{-5} = 3 \times (-5)$$

$$d = 3 \times (-5)$$

$$d = -15$$

Check

$$LS = RS$$

$$\frac{d}{-5} = 3$$

$$\frac{-15}{-5} = 3$$

$$3 = 3 \quad \checkmark$$

$$\frac{63}{7} = \frac{7p}{7}$$

$$\frac{63}{7} = p$$

$$9 = p$$

check

$$LS = RS$$

$$63 = 7p$$

$$63 = 7(9)$$

$$63 = 63$$

For the month of January, the average temperature in Edmonton is $\frac{1}{3}$ the average afternoon temperature in Yellowknife. The average afternoon temperature in Edmonton is -8°C . What is the average temperature in Yellowknife?

Let e represent Edmonton's temp.
Let y represent Yellowknife's temp.

$$e = \frac{1}{3} \times y$$

$$-8 \times 3 = y$$

$$-24 = y$$

$$e = \frac{y}{3}$$

The temperature in yellow knife is -24°C .

$$-8 = \frac{y}{3}$$

check

$$LS = RS$$

$$-8 = \frac{y}{3}$$

$$-8 \times 3 = y$$

$$-24 = y$$

$$-8 = -8 \quad \checkmark$$

* Practice:

$$\frac{-8x}{-8} = 16$$

$$x = -2$$

$$\frac{36}{18} = \frac{18x}{18}$$

$$2 = x$$

$$\frac{y}{4} \times 3 = \frac{15}{y} \times y$$

$$\frac{3y}{4} = 15$$

$$y = 20$$

$$\frac{y}{-36} = -3$$

$$y = 108$$