

# A: One-Step Equations Continued

→ When you solve a word problem marks are given for the following.

1. x-statement
2. equation
3. solution
4. sentence.

## Examples:

1. The afternoon temp ~~is~~  $\frac{1}{3}$  of the morning. If the afternoon temp is  $-9^{\circ}\text{C}$ . What is the average morning temp.?

✓  $m$  - average morning temp. (statement)

Red ✓ indicates where a mark would be given.

afternoon temp is  $\frac{1}{3}$  of morning  
 $-9$   $\Downarrow$   $\frac{1}{3}$   $\Downarrow$   $m$   
 $=$   $\frac{1}{3}$   $\times$   $m$

$$-9 = \left(\frac{1}{3}\right)\left(\frac{m}{1}\right)$$

$$\checkmark -9 = \frac{m}{3}$$

$$-9 \times 3 = \frac{m}{3} \times 3$$

$$\checkmark \boxed{-27^{\circ}\text{C} = m}$$

✓ The morning temperature is  $-27^{\circ}\text{C}$ .

2. The height of a giraffe is " " times ~~a~~ <sup>the height of</sup> house cat. A giraffe can grow to 6m. What is the height of the cat?

$c$  - height of cat ✓

giraffe height is 15 times cat height

$$6 = 15c$$

$$6 = 15c \checkmark$$

$$\frac{6}{15} = \frac{15c}{15}$$

$$0.4\text{m} = c \checkmark$$

The cat's height is 0.4m ✓

3. The number of girls who are left-handed is  $\frac{1}{9}$  the number of girls who are right-handed. About 8% of girls are left-handed. Determine what percent of girls are right-handed.

$r$  - percentage of girls who are right-handed. ✓

left-handed is  $\frac{1}{9}$  the right-handed.

$$8\% = \frac{1}{9} \times r$$

$$8 = \frac{1}{9} \times \frac{r}{1}$$

$$8 = \frac{r}{9} \quad \checkmark$$

$$8 \times 9 = \frac{r}{9} \times 9$$

$$\boxed{72 = r} \quad \checkmark$$

72% of girls are right-handed. ✓

Assignment Pg. 378 #19-26

\* questions 21-26 you must show at least all four steps I showed above that have red check marks.