

# A: Multiplying a Fraction and a Whole Number Continued

→ Write whole number as a fraction  $\left(\frac{\#}{1}\right)$

→ Reduce / Cross Reduce if you can!

→ Top x Top; Bottom x Bottom

→ Reduce!

## Examples:

1. The width of a rectangle is  $\frac{1}{3}$  of its length.  
What is the width of a rectangle that is 12cm long?

$\frac{1}{3}$  of length

$$\frac{1}{3} \times 12$$

$$= \frac{1}{3} \times \frac{12}{1}$$

$$= \frac{4}{1}$$

$$\boxed{= 4\text{cm}}$$

2. A truck uses  $\frac{2}{3}$  of 18 L of gas every 110km. A ~~truck~~<sup>car</sup> uses only  $\frac{2}{3}$  as much fuel. How much fuel does the car use?

$$\frac{2}{3} \text{ of } 18$$

$$\frac{2}{3} \times \frac{18}{1}$$

$$= \frac{12}{1}$$

$$\boxed{= 12\text{L}}$$

3. There are 28 students in a class.  $\frac{1}{8}$  of them have married parents. How many students have married parents?

$$\frac{1}{8} \text{ of } 28$$
$$= \frac{1}{8} \times \frac{28}{1}$$
$$\frac{1}{\cancel{8}^2} \times \frac{\cancel{28}^7}{1}$$
$$= \frac{7}{2}$$

$$= \frac{49}{2}$$

$$= 24.5$$

$$= 24 \text{ students}$$

Assignment Pg. 203 # 8 - 16.