

# MATHEMATICS



## Topic: Find the fraction of the whole

- ❖ When finding fractions of the whole numbers, one method is to multiply the whole number by the fraction.  $6 \times \frac{2}{3} = \left[ \frac{6}{1} \times \frac{2}{3} \right] = \frac{12}{3} = 12$
- ❖ Write the whole number as a fraction over 1 when you times.

Multiply the numerator into a numerator and denominator with a denominator

# Worked examples

Calculate the answer.

$$1. \frac{3}{7} \text{ of } 35$$

$$= \frac{3}{7} \times \frac{35}{1}$$

$$= \frac{105}{7}$$

$$= 15$$

# Multiply fractions

To multiply common fractions, we simply multiply the numerators together and denominators together:

$$\frac{a}{b} \times \frac{c}{d} = \frac{a \times c}{b \times d} \times \frac{ac}{bd}$$

We need to simplify as far as possible

$$\begin{aligned} &= \frac{1}{2} \times \frac{2}{3} \\ &= \frac{1 \times 2}{2 \times 3} \end{aligned}$$

Simplify

$$\left\{ \begin{aligned} &= \frac{2}{6} = \frac{1}{3} \end{aligned} \right.$$

# Exercise 13.2 pg 162

Calculate and write the answer in their simplest form.

1.

3.

4.

5.

6.

7.

9.

14.