

Finding Fractions of Quantities

Example 1 Find $\frac{2}{3}$ of £24

$$= 24 \times \frac{2}{3} = \pounds 16$$

So finding a fraction of a quantity requires the quantity to be multiplied by the fraction

Mix and Match

240 people are at the cinema

45% are children, $\frac{2}{5}$ are women.

How many men are at the cinema?

$$10\% \text{ of } 240 = 24$$

$$5\% \text{ of } 240 = 12$$

$$\Rightarrow 45\% = 4 \times 24 + 12$$

$$= 96 + 12$$

$$= 108 \text{ children}$$

$$240 \times \frac{2}{5} = 5 \overline{) 480} \begin{array}{r} 96 \\ \underline{10} \\ 80 \\ \underline{80} \\ 0 \end{array}$$

$$\begin{array}{r} 96 \text{ women} \\ \underline{11} \\ 204 \end{array}$$

$$\begin{array}{r} 240 \\ \underline{204} \\ \text{Men} = 36 \end{array}$$

In a fruit store $\frac{2}{5}$ of the fruit are apples, $\frac{1}{3}$ of the fruit are oranges. The rest

are bananas. What fraction are bananas?

$$\frac{2}{5} + \frac{1}{3} = \frac{6+5}{15} = \frac{11}{15}$$

$$1 - \frac{11}{15} = \frac{4}{15}$$

$\frac{4}{15}$ of fruit are bananas

Putting numbers in order of size

Order lowest to highest

$$\frac{1}{2}, \frac{6}{11}, \frac{4}{12}, 45\%, 0.7$$

$$\frac{1}{2}, \frac{6}{11}, \frac{1}{3}, \frac{45}{100}, \frac{7}{10}$$

$$\frac{1}{3}, \frac{45}{100}, \frac{1}{2}, \frac{6}{11}, \frac{7}{10}$$

$$\frac{4}{12}, 45\%, \frac{1}{2}, \frac{6}{11}, 0.7$$
