

## Fraction of an Amount

If  $\frac{4}{7}$  of an amount of money is \$480, then

$$\frac{1}{7} \text{ of the amount} = \$480 \div 4 = \$120.$$

Thus  $\frac{6}{7}$  of the amount  $= 6 \times \$120 = \$720.$

and  $\frac{7}{7}$  is the whole amount which is  $7 \times \$120 = \$840.$

### Example

If  $\frac{3}{8}$  of a shipping container holds 2100 identical cartons, how many cartons will fit into:

a  $\frac{5}{8}$  of the container

b the whole container?

$\frac{3}{8}$  of the container holds 2100 cartons.

$$\therefore \frac{1}{8} \text{ of the container holds } 2100 \div 3 = 700 \text{ cartons.}$$

a So,  $\frac{5}{8}$  holds  $700 \times 5 = 3500$  cartons

b The whole is  $\frac{8}{8}$  which is  $700 \times 8 = 5600$  cartons

1  $\frac{2}{3}$  of an amount of money is \$519. Find:

a  $\frac{1}{3}$  of the money

b the whole amount.

2  $\frac{4}{5}$  of a soy bean crop is 2104 tonnes. Find the weight of:

a  $\frac{1}{5}$  of the crop

b the whole crop.

3  $\frac{2}{11}$  of Jo's weekly earnings are paid as income tax. She has \$666 remaining after tax. What is her total weekly pay?

find  $\frac{1}{12}$



4  $\frac{3}{13}$  of a field was searched for truffles and 39 were found. How many truffles would we expect to find in the remainder of the field?

find  $\frac{1}{13}$