

Fraction of an Amount

If $\frac{4}{7}$ of an amount of money is \$480, then
 $\frac{1}{7}$ 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.

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

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

b The whole is $\frac{8}{8}$ which is 700×8
= 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 $\frac{1}{13}$

