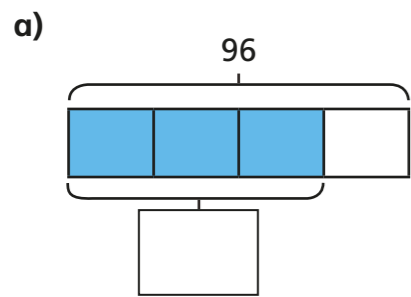
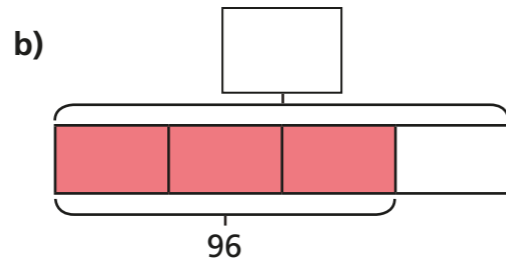


# Use a given fraction to find the whole and/or other fractions

1 Complete the calculations.



$$\frac{3}{4} \text{ of } 96 = \square$$

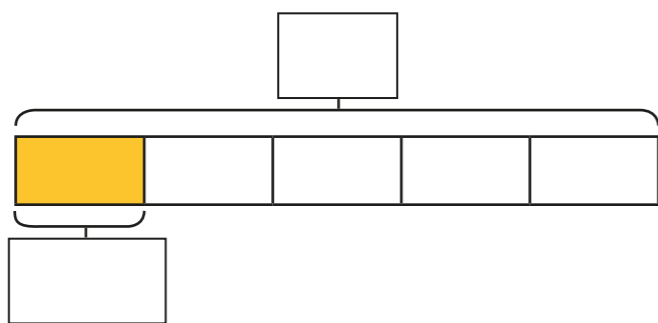


$$\frac{3}{4} \text{ of } \square = 96$$

c) What is the same? What is different?

2  $\frac{1}{5}$  of a number is 30

a) Complete the bar model to represent this statement.



b) What is  $\frac{2}{5}$  of the number?

c) What is  $\frac{3}{5}$  of the number?

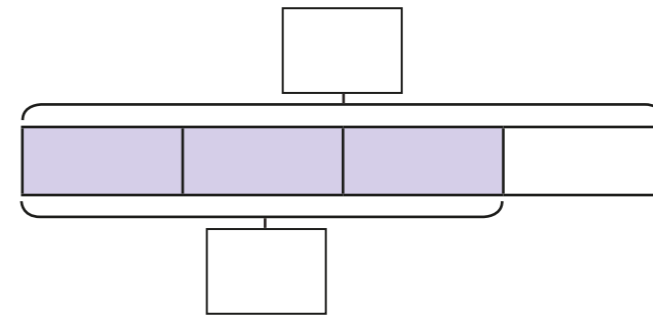
d) What is  $\frac{5}{5}$  of the number?

e) Complete the calculation.

$$\frac{1}{5} \text{ of } \square = 30$$

3  $\frac{3}{4}$  of a number is 24

Complete the bar model to represent this statement.



Complete the calculation.

$$\frac{3}{4} \text{ of } \square = 24$$

4 Complete the sentences.

a)  $\frac{1}{4}$  of a number is 8. The value of the whole number is

b)  $\frac{3}{4}$  of a number is 12. The value of the whole number is

c)  $\frac{2}{7}$  of a number is 56. The value of the whole number is

5 Kim scores  $\frac{4}{5}$  of the marks on a test.

Her teacher says, "You only needed 6 more marks to get full marks on the test."

What was the total number of marks available?

6 Fill in the missing numbers to make each statement correct.

a)  $\frac{2}{3}$  of  =  $\frac{3}{4}$  of 24

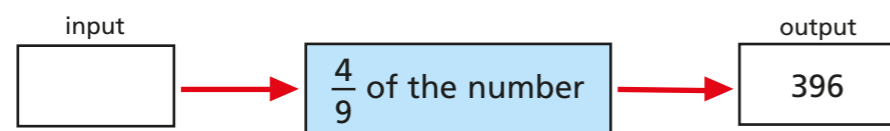
c)  $\frac{\text{input}}{6}$  of 54 = 54

b)  $\frac{5}{7}$  of 560 =  $\frac{4}{5}$  of

d)  $\frac{5}{8}$  of  =  $\frac{3}{5}$  of

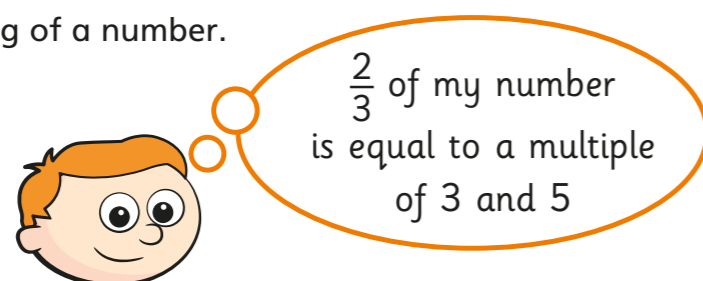
Can you find more than one possible answer for part d)?

7 Find the input of this function machine.



The input is

8 Ron is thinking of a number.



What number could Ron be thinking of?

Can you find more than one possible answer?

9 Esther has some money.

She saves £7.50 and then spends  $\frac{3}{5}$  of what is left.

She now has £21

How much money did Esther have to start with?

10  $\frac{5}{12}$  of an expression is 60y.

What is the expression?

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11 Filip has written a linear sequence.

He says that  $\frac{5}{6}$  of the 2nd term in the sequence is 20, and that half of the 4th term is 17

Find the first four terms in the sequence.

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