1 Complete the calculations.

a)

96

72

$\frac{3}{4}$ of 96 = 72

b)

128

96

$\frac{3}{4}$ of 128 = 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.

150

30
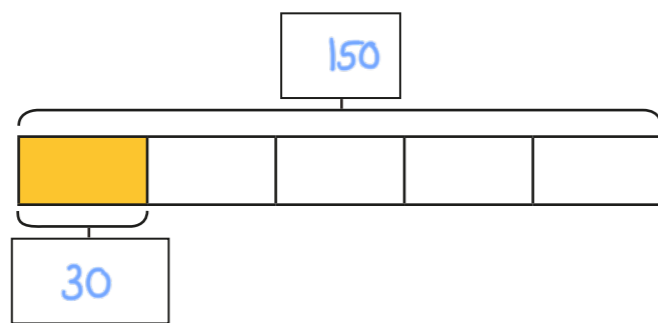
b) What is $\frac{2}{5}$ of the number? 60
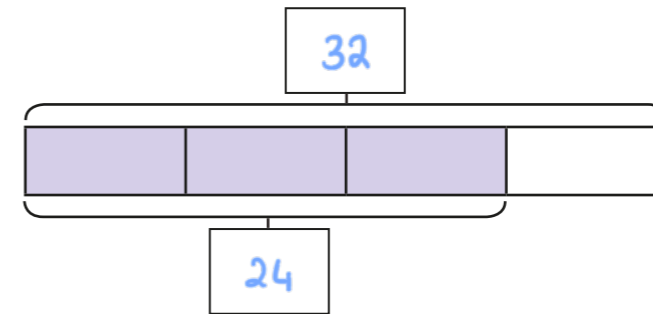
c) What is $\frac{3}{5}$ of the number? 90

d) What is $\frac{5}{5}$ of the number? 150

e) Complete the calculation.

$\frac{1}{5}$ of 150 = 30

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

Complete the bar model to represent this statement.

32

24

Complete the calculation.

$\frac{3}{4}$ of 32 = 24

4 Complete the sentences.

a) $\frac{1}{4}$ of a number is 8. The value of the whole number is 32

b) $\frac{3}{4}$ of a number is 12. The value of the whole number is 16

c) $\frac{2}{7}$ of a number is 56. The value of the whole number is 196

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?

30

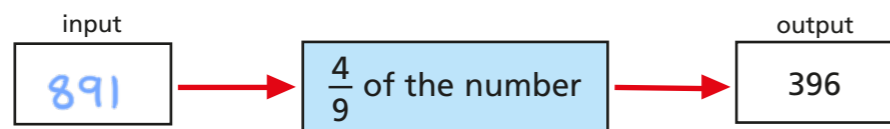**6** Fill in the missing numbers to make each statement correct.

a) $\frac{2}{3}$ of $\boxed{27}$ = $\frac{3}{4}$ of 24

c) $\dfrac{\boxed{6}}{6}$ of 54 = 54

b) $\frac{5}{7}$ of 560 = $\frac{4}{5}$ of $\boxed{500}$

d) *e.g* $\frac{5}{8}$ of $\boxed{120}$ = $\frac{3}{5}$ of $\boxed{125}$

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

7 Find the input of this function machine.

input
$\boxed{891}$ → $\frac{4}{9}$ of the number → output $\boxed{396}$

The input is $\boxed{891}$

8 Ron is thinking of a number.

$\frac{2}{3}$ of my number is equal to a multiple of 3 and 5
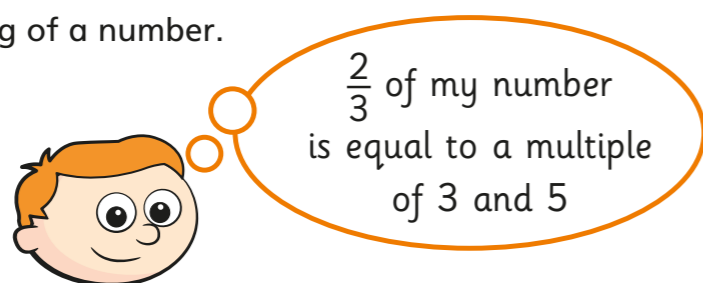
What number could Ron be thinking of?

e.g. $\boxed{45}$

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?

$\boxed{£42.50}$

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

What is the expression?

$\underline{144y}$

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.

$\boxed{19}$, $\boxed{24}$, $\boxed{29}$, $\boxed{34}$