



- 1 Which is greater? Show your workings.

$$\frac{107}{5}$$

$$20\frac{3}{4}$$

- 2 Find the value of the star.  $\frac{1}{3} = \frac{1+5}{3+\text{star}}$

- 3 Here are some number cards.




Use two of the number cards to make a number as close to 4 as possible.

- 4 There are 40 children in a playground.

$\frac{2}{5}$  of the children are boys and the rest are girls.

$\frac{1}{8}$  of the girls are playing football.

How many girls are playing football?

- 5 Amir is thinking of a number.

a) What number is Amir thinking of?

b) Find  $\frac{2}{7}$  of Amir's number.



One half of my number is 14

- 6 A box contains some coloured pencils.

There are 20 more red pencils than green pencils.

$\frac{3}{10}$  of the red pencils are blunt.

$\frac{1}{4}$  of the green pencils are blunt.

There are 5 blunt green pencils.

How many blunt red pencils are there?

- 7 Work out the missing numbers.

a)  $\frac{2}{5}$  of 60 = 3 ×

b)  $\frac{4}{5}$  of 40 =  $\frac{1}{2}$  of

- 8 The symbol means triple the first number, then add the second number. For example,  $7 \text{ (star) } 4 = 25$

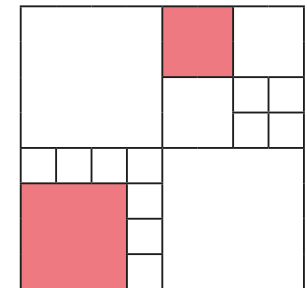
Find the missing values.

a)  $\frac{1}{5} \text{ (star) } \frac{3}{10} = \text{  }$

c)  $(\frac{1}{2} \text{ (star) } \frac{1}{2}) \text{ (star) } 2\frac{1}{4} = \text{  }$

b)  $3 \text{ (star) } \text{  } = 9\frac{5}{7}$

- 9 A large square is divided into small squares. What fraction of the large square is shaded?



- 10 Here are three identical rectangles.

Part of each rectangle has been shaded.

What fraction of the middle rectangle is shaded?

