

09:30 – 10:30

Mathematics: Year 6 Percentages of an amount

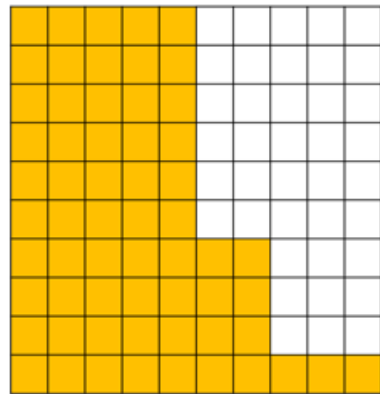
Monday 25th January 2021

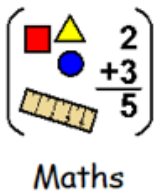
25/01/2021



Let's get warmed up!

What percentage of the hundred square is shaded? Write the percentage as a fraction.





09:30 – 10:30

Mathematics: Year 6 Percentages of an amount

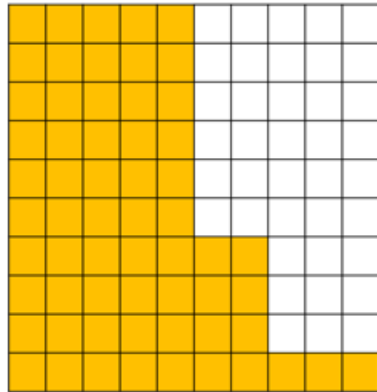
Monday 25th January 2021

25/01/2021



Let's get warmed up! Answers

What percentage of the hundred square is shaded? Write the percentage as a fraction.



$$\frac{61}{100} = 61\%$$



Percentages of an amount

LO: I can find percentages of different amounts.



How will you know that you have been successful?
What am I looking for?

You will understand that percent means part of a hundred

You will be able to use fractional equivalences to find percentages of amounts

You will know that $50\% = \frac{1}{2}$, $25\% = \frac{1}{4}$, $10\% = \frac{1}{10}$ and $1\% = \frac{1}{100}$

You will be able to use bar models to support you in finding the answer

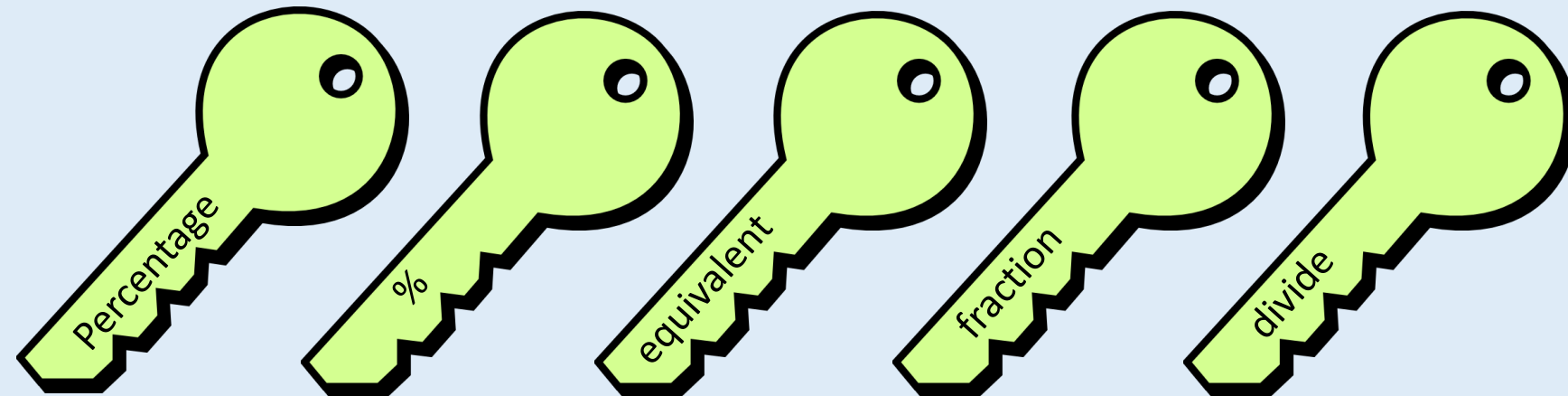
Stem sentence

50 % is equivalent to $\frac{1}{2}$. To

find $\frac{1}{2}$ of an amount, I can

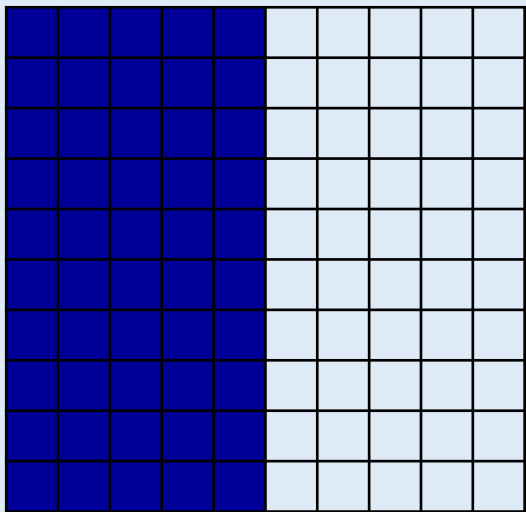
50%

divide by 2



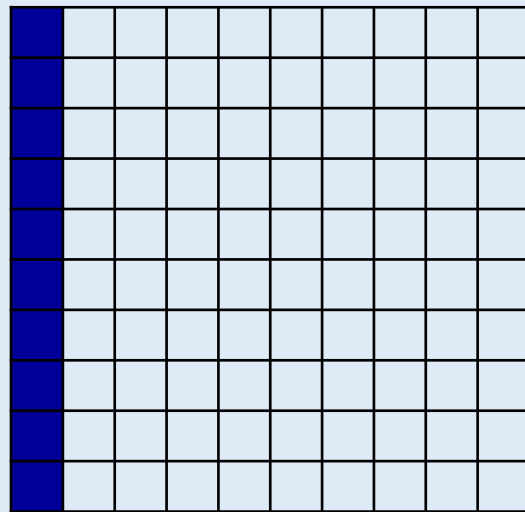
Concrete Pictorial Abstract $3+2=5$

Activating Prior Learning



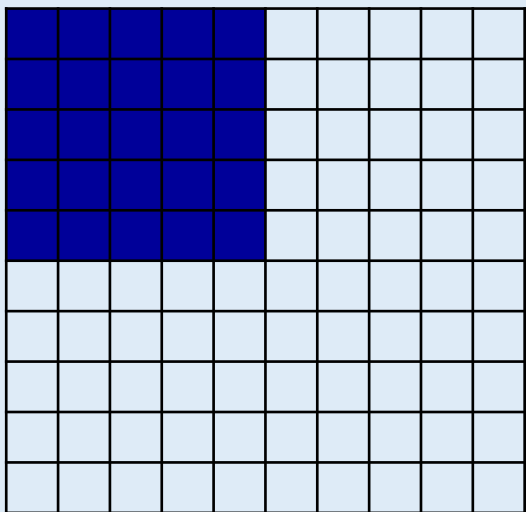
$$\frac{50}{100} = \frac{1}{2}$$

50%



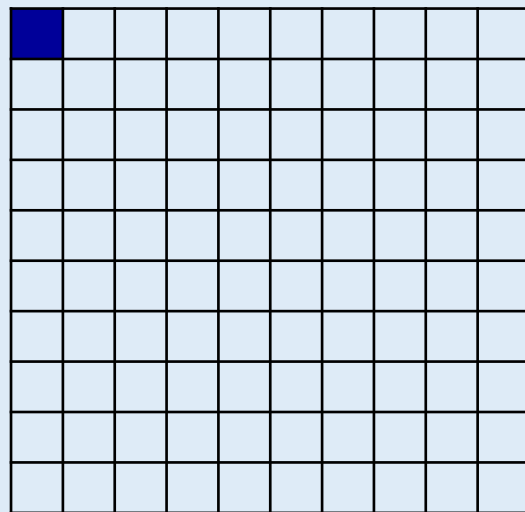
$$\frac{10}{100} = 10\%$$

$$\frac{1}{10}$$



$$\frac{25}{100} = 25\%$$

$$= \frac{1}{4}$$



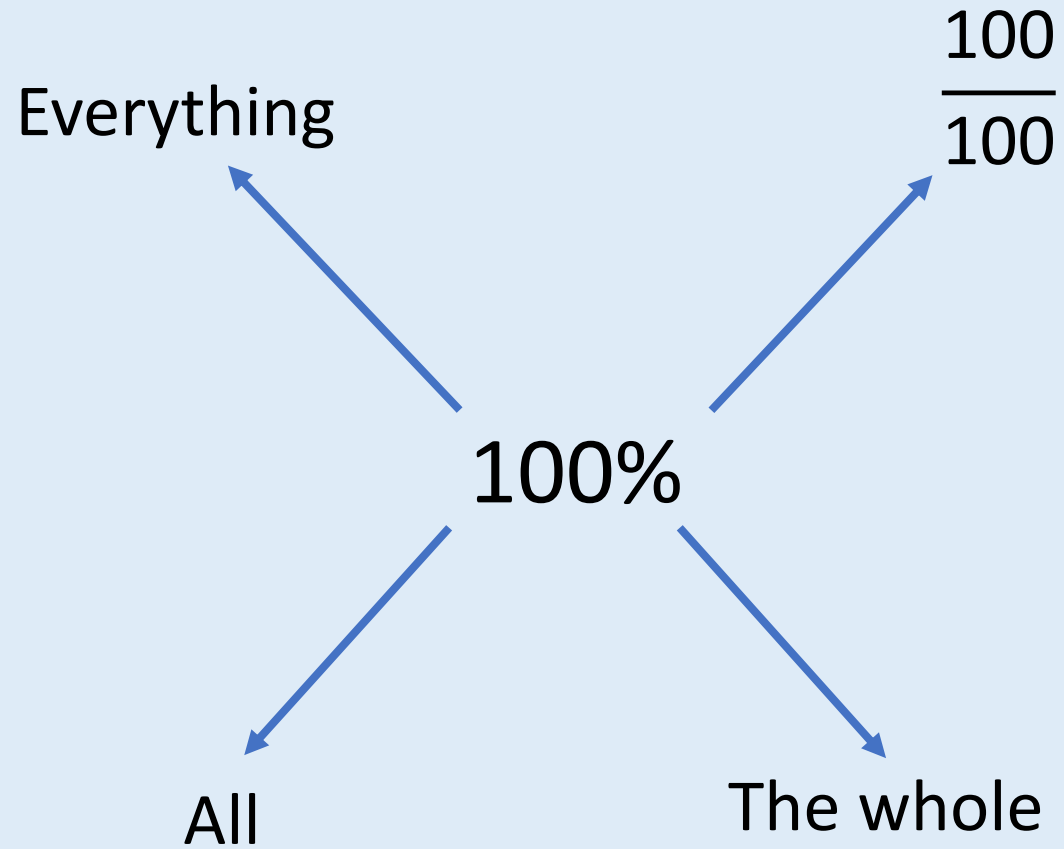
$$\frac{1}{100} = 1\%$$



Concrete Pictorial Abstract

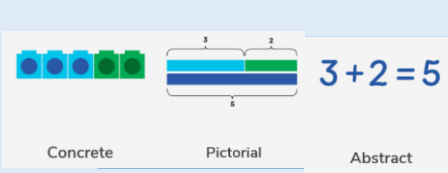
$3 + 2 = 5$

Activating Prior Learning



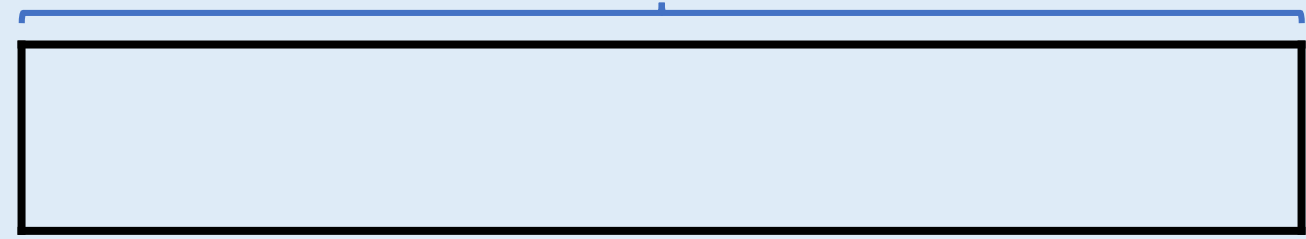
Concrete Pictorial Abstract

3 + 2 = 5



New Learning:

100%



50%



$$100\% \div 2 = 50\%$$

$$50\% = \frac{1}{2}$$



Concrete Pictorial Abstract

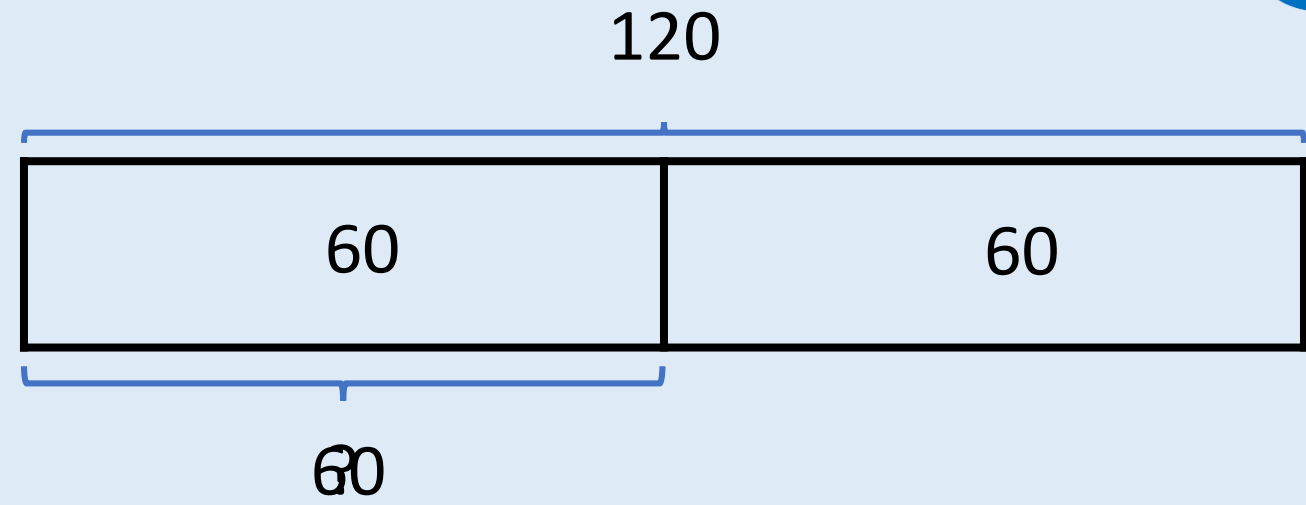
$3 + 2 = 5$



Concrete Pictorial Abstract

New Learning:

Have a think



$$50\% \text{ of } 120 = 60$$

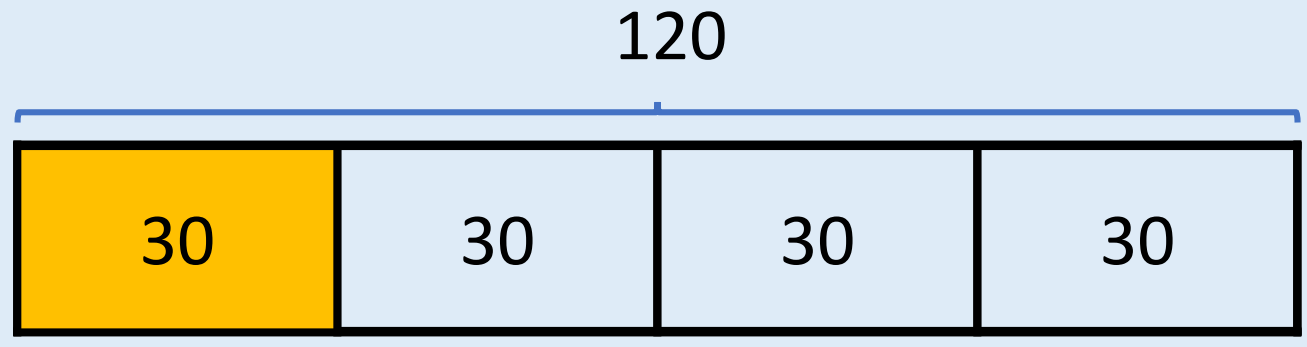
$$120 \div 2 = 60$$



Concrete Pictorial Abstract

3 + 2 = 5

New Learning:



Using the bar model, how could we find 25% of 120?

$$120 \div 4 = 30$$

$$25\% = \frac{25}{100} = \frac{1}{4}$$

$\div 25$
 $\div 25$

50% of 120 = 60



Concrete Pictorial Abstract

$3 + 2 = 5$

New Learning:

Have a think



What percentage would the shaded part represent?

100%



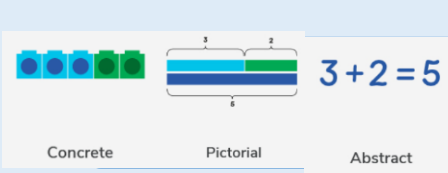
$$100\% \div 10 = 10\%$$

$$10\% = \frac{1}{10}$$




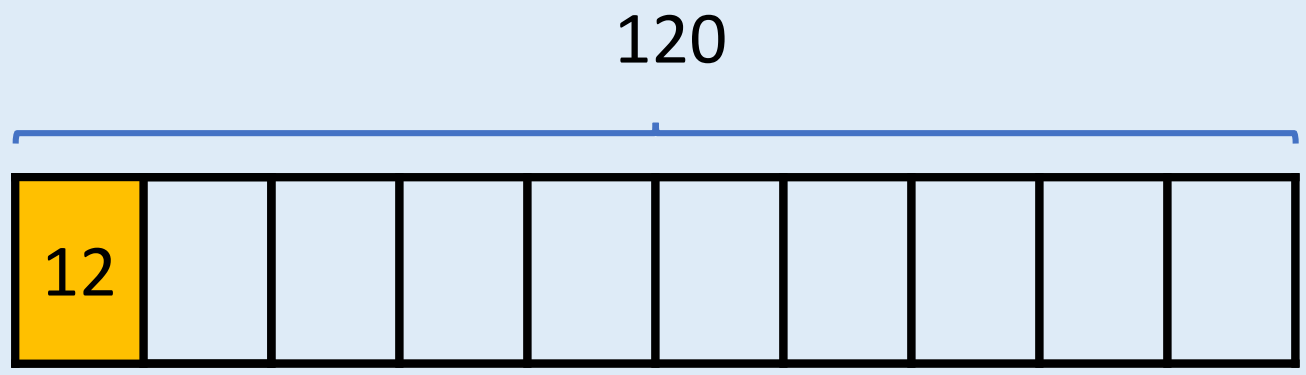
Concrete Pictorial Abstract

3 + 2 = 5



New Learning:

Have a think 



$$10\% \text{ of } 120 = 12$$

$$120 \div 10 = 12$$



$3 + 2 = 5$

Pictorial Abstract

Independent Learning:

Complete the rest of the questions for this lesson (Slide 1 of 2).

1 Match the equivalent fractions to the percentages.

$$\frac{1}{2}$$

$$\frac{1}{100}$$

$$\frac{1}{10}$$

$$\frac{1}{4}$$

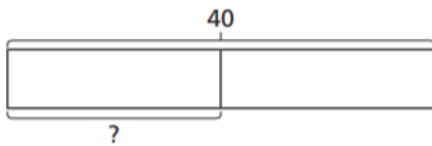
$$25\%$$

$$1\%$$

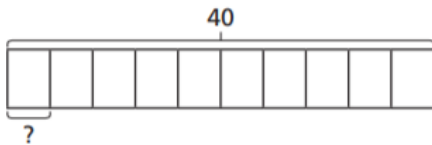
$$50\%$$

$$10\%$$

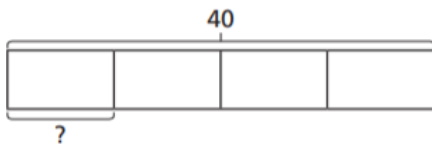
2 Match each bar model to the statement it represents.



10% of 40

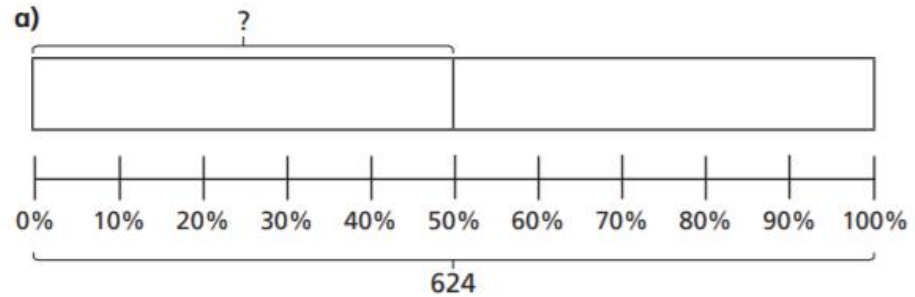


25% of 40

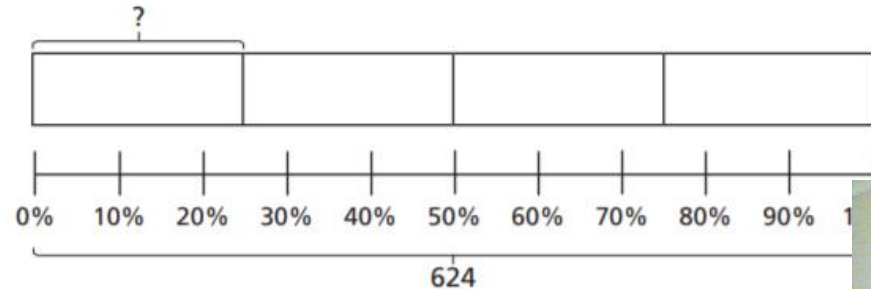


50% of 40

3 Use the bar models to help you complete the calculations.



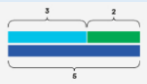
$$50\% \text{ of } 624 = \square$$



$$25\% \text{ of } 624 = \square$$

What do you notice about your answers?





$3 + 2 = 5$

Pictorial

Abstract

Independent Learning:

Complete the rest of the questions for this lesson (Slide 2 of 2).

4

Complete the calculations.

a) 50% of 3,000 =

c) 10% of 3,000 =

50% of 1,500 =

10% of 1,500 =

50% of 500 =

10% of 500 =

b) 25% of 3,000 =

d) 1% of 3,000 =

25% of 1,500 =

1% of 1,500 =

25% of 500 =

1% of 500 =

What do you notice about your answers?

5

Workers in a toy factory aim to pack 2,560 boxes each day.

At 10:00 am they have completed 25% of their target.

a) How many boxes have they packed?

By midday they have packed 50% of their target.

At 2:00 pm they have packed another 10% of their target.

b) How many more boxes do they need to pack to meet the daily target?

They need to pack more boxes.

