

1.2.21

Arithmetic

1. $321 \div 6$

4. 16×17

2. $12,276 - 409$

5. $2^3 + 2^3$

3. $9 + 3,024$

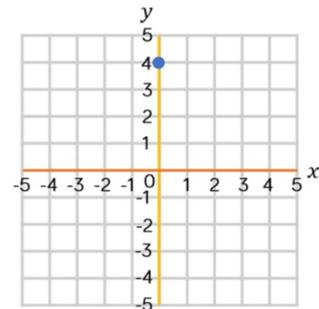
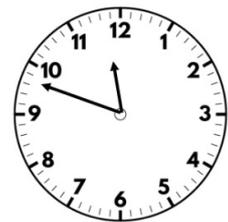
6. $\frac{2}{5}$ of ? = 18

FB4

Flashback 4

Year 6 | Week 4 | Day 3

- 1) Work out 25% of £20
- 2) Write 0.7 as a percentage
- 3) What are the coordinates of the point?
- 4) Work out 5.3×7



Problems of the Day

Problems of the Day 2020

Day 6

- 1 The table shows the ages of people in a theme park.

Age	Number of people
Under 18	126
18 - 60	195
Over 60	38

These are the entry costs.

How much money did the theme park make from entry costs?



Given that

$$\triangle + \triangle + \star + \star = 100$$

$$\heartsuit + \heartsuit + \triangle + \star = 78$$

Work out the value of the 

- 3 What are the missing numbers?

$$\square \times 10 = 42$$

$$\square \div 10 = 42$$



Finding the percentage of an amount



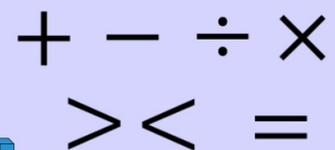
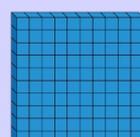
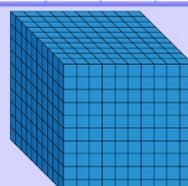
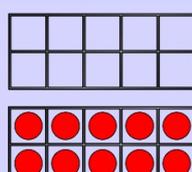
100% = the whole amount

Quick recap

50% = half

25 = a quarter

These are good facts to remember as they can help you to check if your answer is possible.

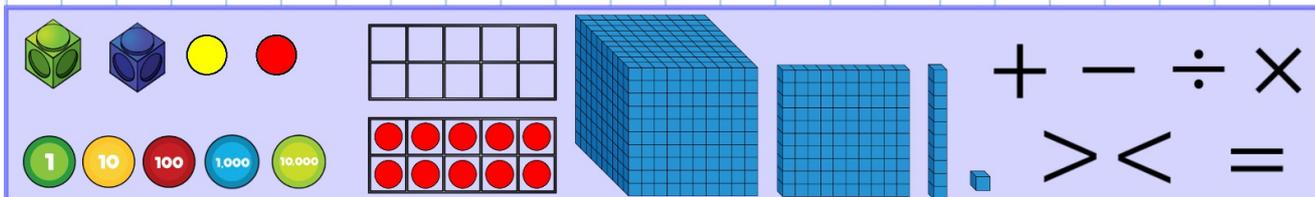


Finding the percentage of an amount

To find 10%, we divide the number by 10.

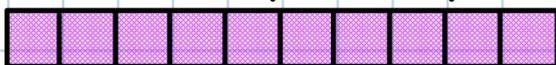


If the whole amount was worth 60, each box (10%) would be worth 6.



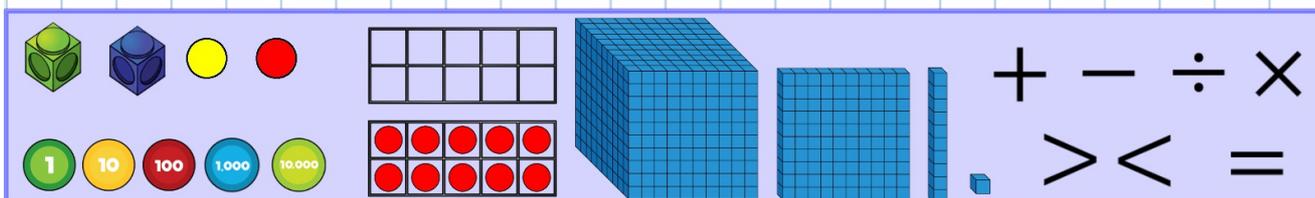
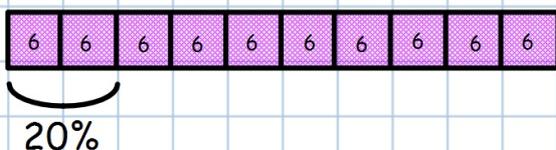
Finding the percentage of an amount

Once we have found out what 10% is, we can find out any multiple of ten.



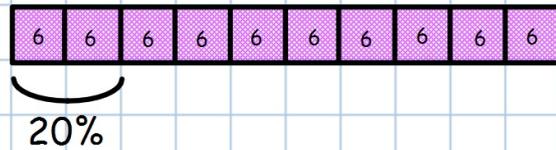
$$10\% = 6$$

To find 20%, we would need two lots of 10% (2 lots of 6) = 12



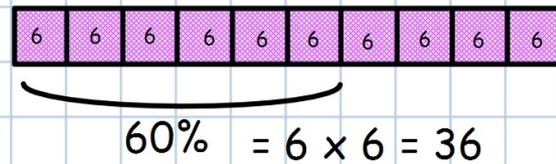
Finding the percentage of an amount

$10\% = 6$



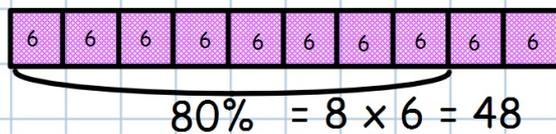
So $60\% =$

6 lots of 10%



$80\% =$

8 lots of 10%



Finding the percentage of an amount



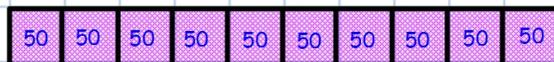
To find 1% of an amount we could divide it by 100

OR we could find 10% and divide the 10% by 10.

This is because there are ten lots of ' 1% ' in 10%

Finding the percentage of an amount

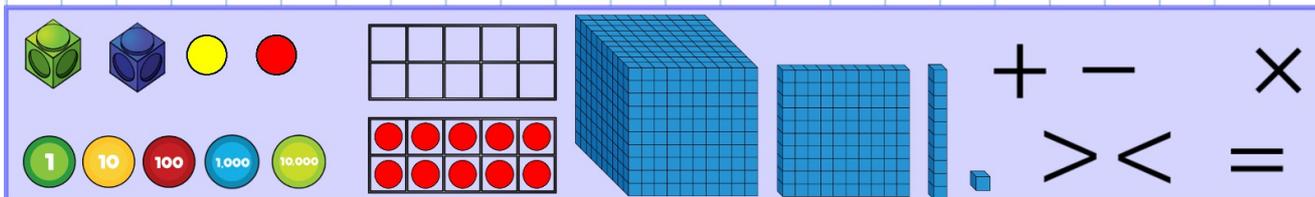
If the whole amount was 500, then $10\% = 500 \div 10 = 50$



To find 1% of 500 we could divide 500 by 100 (=5)

We can do this easily as the whole amount (500) is a hundreds number.

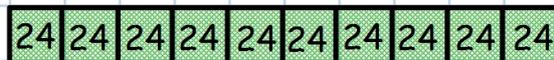
Or we could divide 10% (50) by 10 = 5



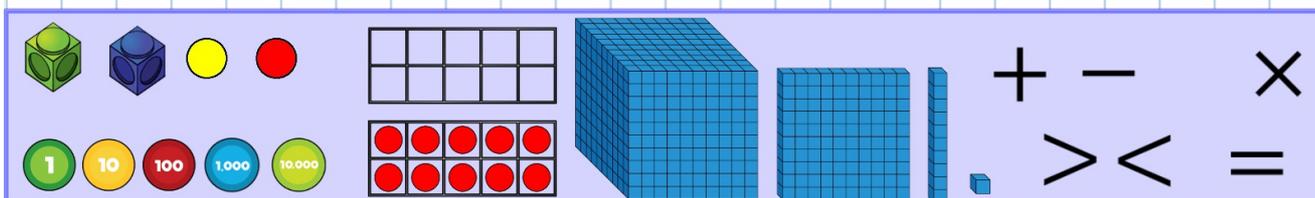
Finding the percentage of an amount

Finding 10% and then 1% helps when the number isn't a hundreds number e.g. 240

$$10\% = 24$$



To find 1% we could divide 10% (24) by 10 = 2.4



Finding the percentage of an amount

Finding 10% and then 1% helps when the number isn't a hundreds number e.g. 240

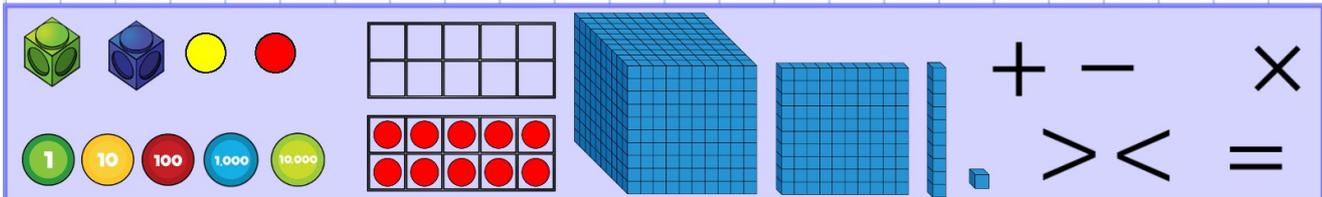
$$10\% = 24$$



To find 1% we could divide 10% (24) by 10 = 2.4

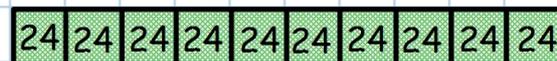
If we wanted to find out what 5% is,
we could find half of 10%

$$\text{Half of } 24 = 12, \text{ so } 5\% = 12$$



Finding the percentage of an amount

$$10\% = 24$$

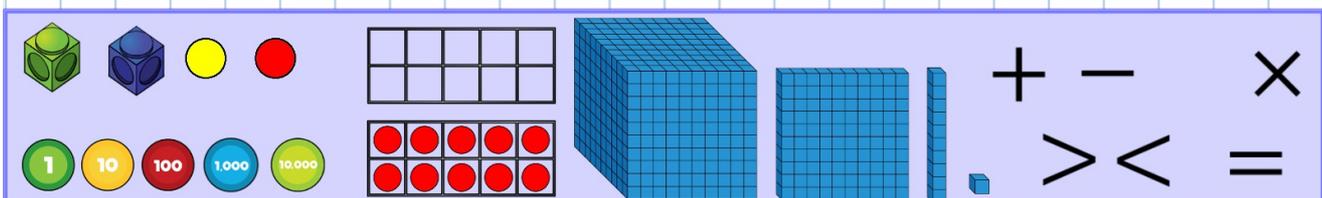


To find 1% we could divide 10% (24) by 10 = 2.4

$$\text{Half of } 24 = 12, \text{ so } 5\% = 12$$

If we wanted to find out what 12% is, we could find 10% and
find out what 1% is (we would need 2 lots of 1%)

$$\begin{aligned} 12\% &= 10\% + 1\% + 1\% \\ &= 24 + 2.4 + 2.4 = 28.8 \end{aligned}$$



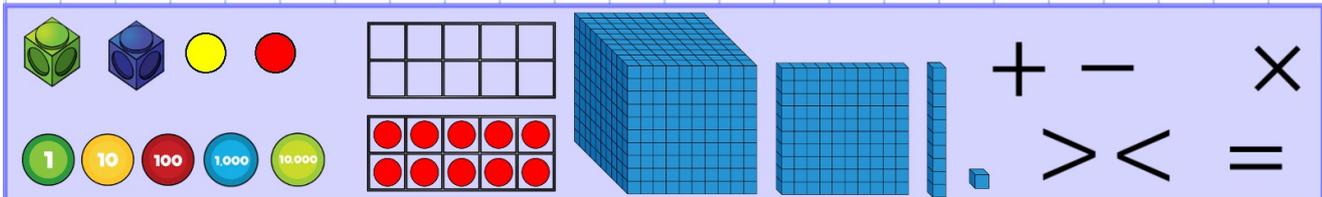
Finding the whole amount



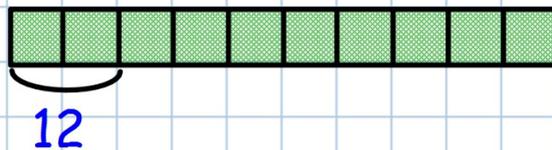
If we are told that 8 is 10% of a number. We can find out the whole by multiply the 8 by 10.

e.g. $10\% \text{ of } ? = 8$

$10\% \text{ of } 80 = 8$



Finding the whole amount

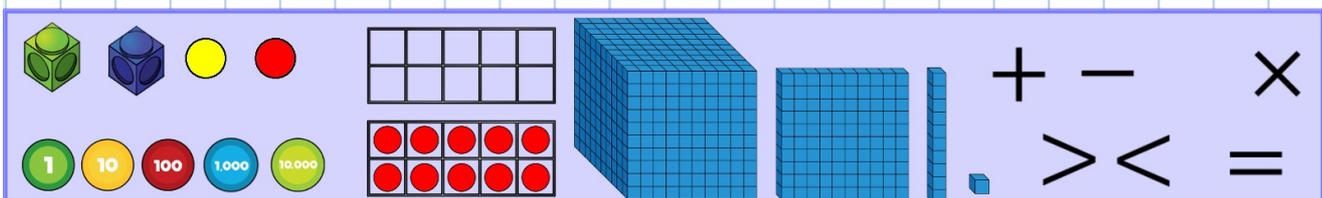


For $20\% \text{ of } ? = 12$

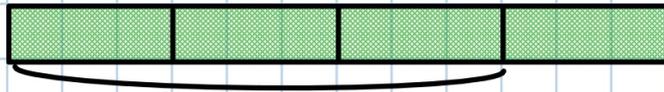
Our first step would be to find 10%
so we would divide 12 by 2 = 6

$10\% = 6$

This means that $6 \times 10 = 60$ (which is the whole)



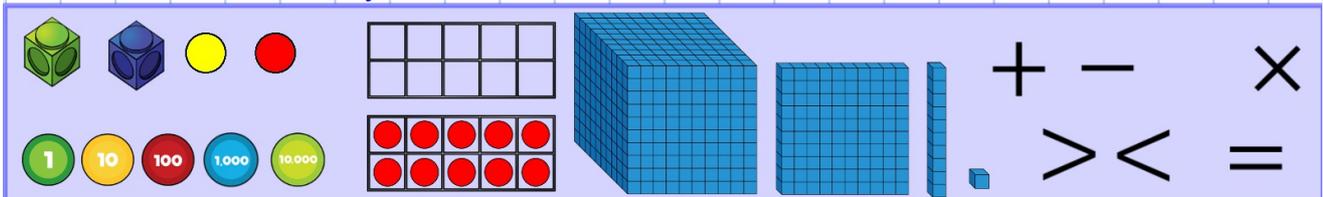
Finding the whole amount



21

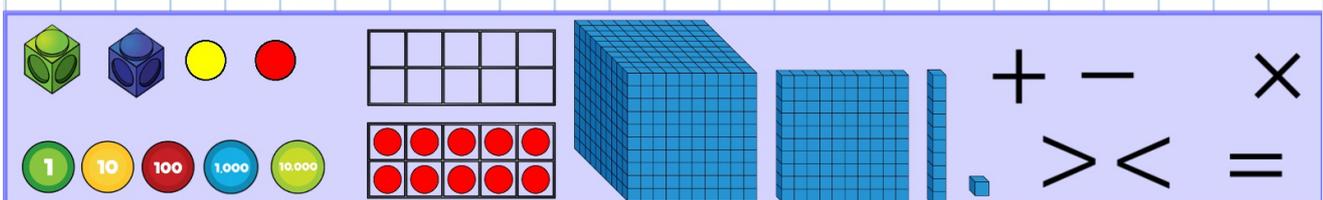
(75% = three quarters)

For 75% of ? = 21

Our first step would be to find one quarter (or 25%)so we would divide 21 by 3 = 710% = 6This means that 7×4 (4 quarters) = 28 (which is the whole)

Finding the percentage of an amount

For ?% of 200 = 40

Our first step would be to find 10% of 200so we would divide 200 by 10 = 2010% = 20We now need to find out how many lots of 20 are in the 40 = 2 lots (2 lots of 10% = 20%)so 20% of 200 = 40

1.2.21

Percentages- missing values

Vocabulary

- percent
- whole
- parts of one hundred
- tenth
- hundredth
- partition
- parts

1.2.21

Percentages - missing values

Today we are learning to find the missing whole or a missing percentage when given other values.

I will be successful if:

- I identify 10% as a tenth of the amount
- I identify 1% as a tenth of 10%
- I can partition the percentage into tens and ones.
- Once I have identified 10%, I can identify 5% and then calculate how many
- parts I have.

1.2.21

Plenary

True or False?

True or False?

Percentages - missing values

Dexter has some chocolate. He gives 20% to Annie then eats 40% of what he has left. He puts the remaining 88 g in the fridge for later.



I started with a 150 g of chocolate.