# Year 6

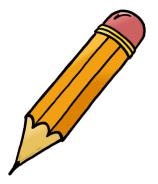
## Thursday 11<sup>th</sup> June 2020

# Maths

LO: Percentages of Amounts

A video of the lesson is avaible here (PDF only or above the powerpoint) Summer Term 2 - Week 1 - Lesson 4.





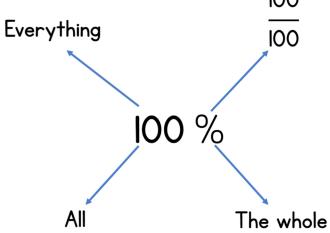
### Brain Melter!



Can you get your car out of the very crowded car park by moving other cars forwards or backwards?

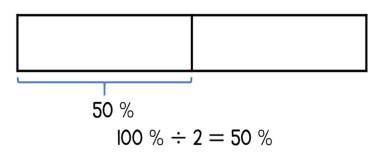
Check if your solution work here.

# Re-cap: Give 100 % today! The teacher says.... But I'm tired... I don't get it... I was playing Zzzzzzz Fortnite late... What does give 100% mean? 100

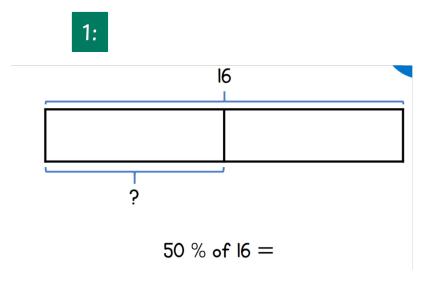


Remember! 100% of a pineapple is all of the pineapple!

## If I know...



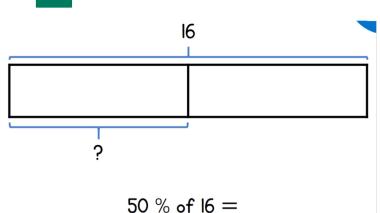
## Can I solve ...



$$50 \% \text{ of } 60 = 30$$

$$50 \% \text{ of} = 72$$

1:



$$16 \div 2 = 8$$

2:

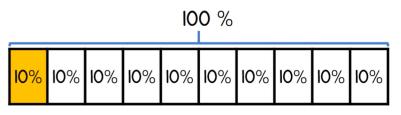
$$50 \% \text{ of } 60 = 30$$

$$50 \% \text{ of } 144 = 72$$

$$50 \% \text{ of } 70 = 35$$

$$50 \% \text{ of } 7 = 3.5$$

## If I know...

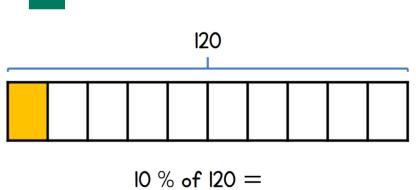


$$10 \% \times 10 = 100 \%$$

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

Can I solve ...

1:



2:

$$20 \% \text{ of } 120 =$$

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

$$90 \% \text{ of } 120 =$$

1:

10 % of 120 = 12

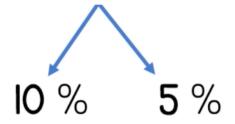
2:

$$20 \% \text{ of } 120 = 24$$

$$60 \% \text{ of } 120 = 72$$

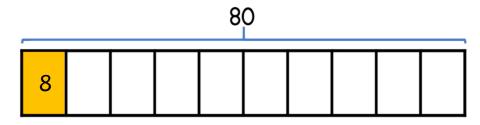
$$90\%$$
 of  $120 = 108$ 

How could we calculate 15 % of 80?

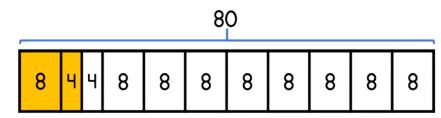


Lets partition 15% into 5% and 10%.

I know 10% of 80 is 8 because I have broke it into 10 equal pieces.



I know 5% of 80 is 4 because it is half of 10% (8).



Therefore 15% is 12.

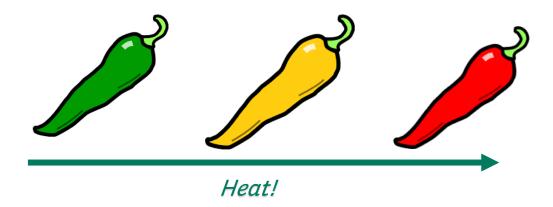
$$15\%$$
 of  $80 = 8 + 4$ 





The independent work continues on the next two slides. There are 5 questions and 1 extension.

(Espanol - cinco preguntas y una extensión)

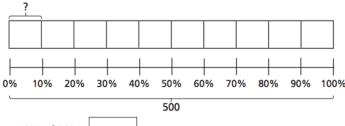


#### White Rose Maths

### Percentage of an amount (2)







10% of 500 =

b) Use your answer to part a) to help you complete the calculations.





To find 5% you can find 10% and then halve it.

Use Dora's method to complete the calculations.

What do you notice about your answers?



Some children are asked to find 75% of 340





I will find 25% and multiply it by 3

a) Use Dexter's method to find 75% of 340



I will find 10% and multiply it by 7, then find 5% and add them together.

b) Use Alex's method to find 75% of 340



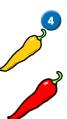


I will find 25% and 50% and add them together.

c) Use Amir's method to find 75% of 340

ر

d) Are there any other methods you could use?



Talk to a partner about different methods for finding these percentages.

20% 90%

60%

15%

55%

40%

Use your preferred method to calculate the percentages.



Ron is calculating these percentages.

10% of 20

20% of 10



20% is double 10%, and 10 is half of 20, so I know these will both have the same answer.

How does Ron know this?





a) Complete the calculations.





c) Does this always happen? Investigate with other examples.

d) Talk about your findings with a partner.













The next two slides contain the answers should you wish to check you work and reflect on what you understand.



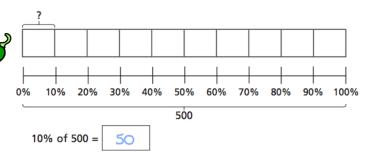




#### White Rose Maths

#### Percentage of an amount (2)





b) Use your answer to part a) to help you complete the calculations.

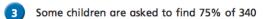




To find 5% you can find 10% and then halve it.

Use Dora's method to complete the calculations.

What do you notice about your answers?







I will find 25% and multiply it by 3

a) Use Dexter's method to find 75% of 340





I will find 10% and multiply it by 7, then find 5% and add them together.

b) Use Alex's method to find 75% of 340





I will find 25% and 50% and add them together.

c) Use Amir's method to find 75% of 340

255

d) Are there any other methods you could use?



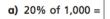
Talk to a partner about different methods for finding these percentages.

- 20%
- 90%
- 60%
- 15%
- 55%

40%

Use your preferred method to calculate the percentages.

200





Ron is calculating these percentages.

10% of 20

20% of 10



20% is double 10%, and 10 is half of 20, so I know these will both have the same answer.

How does Ron know this?





a) Complete the calculations.

b) What do you notice about the answers?

Each column is the same

- c) Does this always happen? Investigate with other examples.
- d) Talk about your findings with a partner.



