I KNOW HOW TO SOLVE ONE-STEP % AMOUNTS OF NUMBERS

1%, 5%, 10%, 25%, 50%

By the end of this term, children should be able to calculate one-step % amounts of numbers 1%, 5%, 10%, 25%, 50%. They should also be able to calculate questions that use this information such as 30% of 400. Pupils are encouraged to use their knowledge of equivalent fractions and percentages to work this out such as finding out 25% (or ¼) of 200 by dividing 200 by 4.

Please note, where we have provided links to online activities we expect children to seek parent/carer permission to do this first.

Use a bar model to calculate percentages. For this example, 100% = 10. To find 20% of 10 divide by 10 to find 10% and then multiply by 2 to find 20%. To find 10% of 10, divide 10 by 10. Try the same with these numbers as your starting point: 20, 50, 40, 60, 200

10

100%									
20%		20%		20%		20%		20%	
10%	10%	10%	10%	10%	10%	10%	10%	10%	10%

Try finding percentages of other numbers using these bar models:

100%	
50%	50%

100%			
25%	25%	25%	25%

TOP TIPS

There are also many different ways to do the same thing. Try estimating first. For example, there are 10 parts to this bar model, so 10% would be one part. Point to where 5% would be. Now point to 65%.

What if the bar model represented the number 80? Could they work out 65% of 80? You might do this by working out 50%, 10% and 5% and adding the answers together.

Follow the instruction below to practice these skills by playing **Maths Surpass - Percent**.

1. Use your laptop or tablet to access the following link or to scan the QR code:
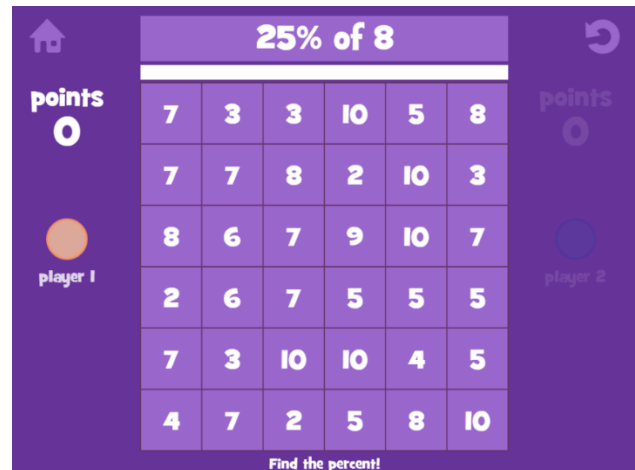
    https://www.mathplayground.com/mathsurpass_percent.html

2. Choose to find percentages of multiples of 10 or 5. Choose to play against the computer or a friend. Click the orange arrow.

3. Click on the correct answer for each question.

What to expect in Year 6 SATs

Year 6 children will be tested on their percentage knowledge in their end of year SATs. Here are some questions from past papers:

$$52\% \text{ of } 700 =$$

This may look hard, but all you have to do is work out 50% and 1% (which you multiply by 2) and add the answers together.

$$95\% \text{ of } 180 =$$

Top tip: Find 5% and multiply by 19 or alternatively subtract 5% from 180. To find 5%, divide by 10 and then half.

Think about similar strategies for these:

https://www.kenningtonsprimaryacademy.co.uk/MainFolder/AA/JennyNewFolder/CA-Solving-Percentages-Practice-Questions-Year-6.pdf