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I can mentally find quarters of a number by halving and halving it again.



Halves and Quarters

Finding $\frac{1}{2}$ of an amount is the same as dividing that amount by 2.

e.g. $\frac{1}{2}$ of 48 = 24

Once you have found $\frac{1}{2}$, you can easily find $\frac{1}{4}$ by halving again.

e.g. $\frac{1}{4}$ of 48 = 12

Today we are going to learn how to **quarter** a number by **halving** it and then **halving** it again. So, basically, as long as you can half a number you can find quarters easily because you just have to do the same operation again.

Easy right! We can do this...

Check the following links, which explain halving in two different ways.

<https://www.youtube.com/watch?v=NAPZ73YN-ok>

The second video is just more detailed, really.

<https://www.youtube.com/watch?v=MrFeSE0RWxQ>



Practice!

So let's start by halving the following numbers.

Half of 28 =

Half of 46 =

Half of 34 =

Half of 88 =

This should be quite straightforward because all of the numbers are even.

Tasks - finding quarters of numbers is simple. You just half and then half again.

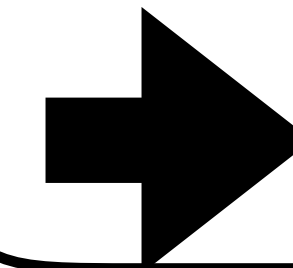
Presentation: even though we are focusing on doing these calculations quickly, in our heads, we do want to see your thinking process. So, it is up to you how you want to record your working out, but make sure that it is clear for your teachers to see how you have done it.

Example

Quarter of 28 = ?

Half of 28 = $20 \div 2 + 8 \div 2 = 10 + 4 = 14$

Half of 14 = $10 \div 2 + 4 \div 2 = 5 + 2 = 7$



Quarter of 28 = 7

Task 1

Quarter of 24 =

Quarter of 46 =

Quarter of 34 =

Quarter of 88 =

Task 2

Quarter of 62 =

Quarter of 56 =

Quarter of 45 =

Quarter of 77 =

Task 3

Quarter of 86 =

Quarter of 104 =

Quarter of 348 =

Quarter of 565 =