

First, begin the lesson by completing a simulation of the year 4 multiplication test.

<https://mathsframe.co.uk/en/resources/resource/477/Multiplication-Tables-Check>

This link should allow you to access it. You have 25 random times table questions to answer and you are given 6 seconds to answer each one. Try not to use any times tables sheets/ resources to help you, we need to be fluent by now!

Lesson:

Today we will be looking at finding fractions of quantities. For example, $\frac{1}{2}$ of 16.

You probably already know the answer to this in your head however, we should know how to work it out mathematically as this will help us with much trickier questions later...

So, to work out $\frac{1}{2}$ of 16 we must divide 16 by the denominator (2) then multiply by the numerator (1).

Remember: DIVIDE BY THE DENOMINATOR, MULTIPLY BY THE NUMERATOR.

So, $16 \div 2 = 8$. $8 \times 1 = 8$. Therefore, $\frac{1}{2}$ of 16 = 8.

This is how I would like you to present your work in your books, using the three steps I have shown above.

Now let's work out a trickier one: $\frac{3}{4}$ of 20

Remember: DIVIDE BY THE DENOMINATOR, MULTIPLY BY THE NUMERATOR.

$$20 \div 4 = 5$$

(This means that $\frac{1}{4}$ of 20 is 5, however we want to work out $\frac{3}{4}$ so we need to multiply 5 by 3)

$$5 \times 3 = 15$$

Therefore, $\frac{3}{4}$ of 20 = 15.

TASK:

Have a go at answering the following questions. Just do as many as you can in the given time.

Answer each question in the three steps I used.

$$\frac{1}{4} \text{ of } 20 \quad \frac{1}{2} \text{ of } 28 \quad \frac{1}{3} \text{ of } 12 \quad \frac{1}{5} \text{ of } 25 \quad \frac{1}{6} \text{ of } 30$$

$$\frac{2}{3} \text{ of } 18 \quad \frac{2}{5} \text{ of } 20 \quad \frac{2}{4} \text{ of } 16 \quad \frac{2}{6} \text{ of } 36 \quad \frac{2}{3} \text{ of } 24$$

$$\frac{3}{5} \text{ of } 40 \quad \frac{5}{8} \text{ of } 48 \quad \frac{4}{7} \text{ of } 21 \quad \frac{3}{6} \text{ of } 24 \quad \frac{5}{9} \text{ of } 45$$

Challenges:

Jack: To work out $\frac{5}{8}$ of a number, you divide by the numerator (5) and multiply by the denominator (8). Correct?

Queen: $\frac{1}{2} = \frac{2}{4}$ Prove it.

Ace: Insert < = > into the correct places.

$$\frac{5}{8} \text{ of } 48 \quad \text{_____} \quad \frac{5}{9} \text{ of } 45$$

$$\frac{2}{3} \text{ of } 18 \quad \text{_____} \quad \frac{2}{5} \text{ of } 20$$

Now it's time for you to practise your maths skills using Mathletics and Timestables.co.uk.

Have fun! Keep learning your times tables.

If you need any help at all or would like to send me pictures of your amazing work, please email myself and Miss Senior. To those of you who received pens last week - I would love to see your handwriting!



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