

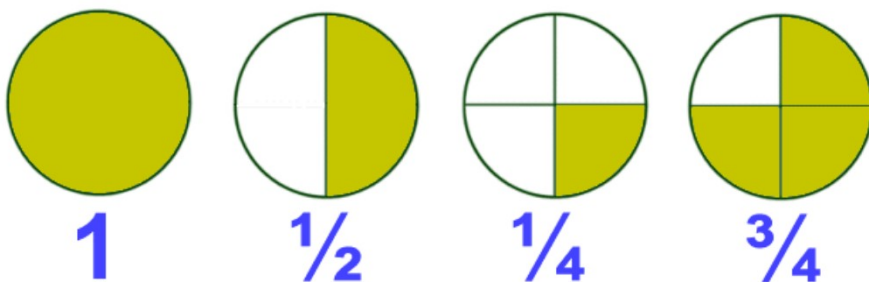
Monday

8.2.21

TBAT show fractions of quantities

Fractions can show numbers that are smaller than (or parts of) 1.

For example:



## 8.2.21

### TBAT show fractions of quantities

Fractions can also show us parts of different numbers or quantities.

For example,  $\frac{1}{4}$  of 40:

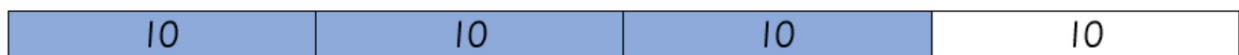
$$\frac{1}{4} \text{ of } 40 = 10$$



40

Or  $\frac{3}{4}$  of 40:

$$\frac{3}{4} \text{ of } 40 = 30$$

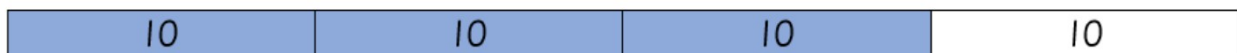


## 8.2.21

### TBAT show fractions of quantities

Or  $\frac{3}{4}$  of 40:

$$\frac{3}{4} \text{ of } 40 = 30$$



For this fraction, the 'whole' is 40.

To find  $\frac{3}{4}$  of 40, we first need to find  $\frac{1}{4}$  - we can do this by dividing 40 into 4 even pieces.

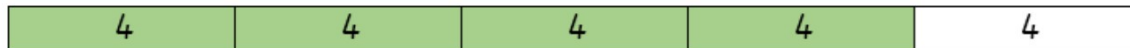
Now we know that each 'piece' is 10, to get  $\frac{3}{4}$  we need 3 of these, which gives us 30.

8.2.21

TBAT show fractions of quantities

Some more examples:

$$\frac{4}{5} \text{ of } 20 = 16$$



$$\frac{7}{10} \text{ of } 200 = 140$$



Tuesday

### 9.2.21

#### TBAT calculate fractions of quantities

We can use multiplication and division methods that we know to help us solve fractions of quantities questions:

For example  $\frac{3}{4}$  of 96:

We can find  $\frac{1}{4}$  of 96 by doing  $96 \div 4$  first:

$$\begin{array}{r} 24 \\ 4 \overline{) 96} \end{array}$$

Then we can multiply this by 3 to find  $\frac{3}{4}$

$$\begin{array}{r} 24 \\ \times 3 \\ \hline 72 \\ \hline \end{array}$$

### 9.2.21

#### TBAT calculate fractions of quantities

The easiest way to find a fraction of a quantity is to:

- Divide by the denominator (bottom number of the fraction)
- Multiply by the numerator (top number of the fraction)

$$\frac{3}{4} \text{ of } 96 = 72$$

$$96 \div 4 = 24$$

$$24 \times 3 = 72$$

Wednesday

10.2.21

TBAT calculate fractions of money



## 10.2.21

### TBAT calculate fractions of money

We can use the methods we have already learnt to help us calculate fractions of money.

When calculating fractions of money, we may get a decimal answer. This is because we have pounds and pence. For example:

$$1/2 \text{ of } £5 = £2.50$$

$$3/4 \text{ of } £10 = £7.50$$

## 10.2.21

### TBAT calculate fractions of money

Here's how we could calculate  $2/5$  of £4:

Finding  $1/5$ :

$$£4 \div 5 =$$

(This looks a bit tricky at first, but if we convert the pounds to pence it's much easier!)

$$400p \div 5 = 80p$$

Now finding  $2/5$ :

$$80p \times 2 = 160p = £1.60$$

$$2/5 \text{ of } £4 = £1.60$$

£0.80	£0.80	£0.80	£0.80	£0.80
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10.2.21

TBAT calculate fractions of money

Would you rather...?  $\frac{3}{8}$  of £48

$\frac{3}{4}$  of £44

$\frac{5}{9}$  of £45

How will you find out which gives  
the biggest answer?

Thursday

## 11.2.21

### TBAT solve problems involving fractions of quantities

Sarah entered a 100-word story competition. She wrote her story over two evenings. On the first evening, she wrote  $\frac{6}{10}$  and on the second evening she wrote the rest.

- How many words did she write on the first evening?
- How many words did she write on the second evening and what fraction was this?

- First, we would need to find  $\frac{6}{10}$  of 100,  $\frac{1}{10}$  would be 10, so  $\frac{6}{10} = 60$
- Because we know that  $\frac{10}{10}$  would be the same as the whole 100, we know that on the second evening she wrote  $\frac{4}{10}$  (as  $\frac{6}{10} + \frac{4}{10} = \frac{10}{10}$ )
- $\frac{4}{10}$  of 100 = 40

## 11.2.21

### TBAT solve problems involving fractions of quantities

Approaching word problems with...

