



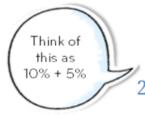
HELLO!

Today we are going to revise multiplying and dividing fractions by whole numbers



Arithmetic Warm Up

1.
$$\frac{2}{9}$$
 of 36 =

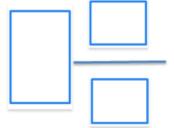


15% of 440 =



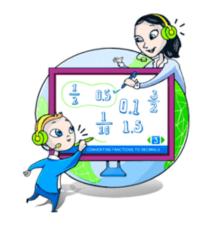
3. Write $\frac{14}{6}$ as a mixed

number in its simplest form





Revision on multiplying and dividing fractions by whole numbers



Today we are going to revise how to:

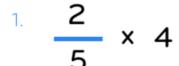
multiply fractions by whole numbers and by fractions

adivide fractions by whole numbers

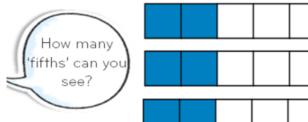


Revision: Multiplying fractions by whole

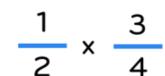
numbers and by fractions







2.



This is the same as saying 'half of 4



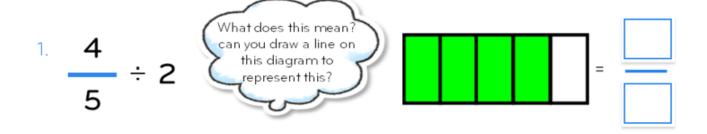
Split this $\frac{3}{4}$ in half. What are the parts called now?

How many of these parts are shaded in one half?

$$\frac{1}{2} \times \frac{3}{4} = \frac{1}{2}$$



Revision: Dividing fractions by whole numbers



Remember: multiplication and division are **inverse operations**. Dividing by two is the same as multiplying by a half; dividing by four is the same as multiplying by a quarter and so on.

So,
$$\frac{4}{5} \times \frac{1}{2} = \boxed{ }$$



Question 1

- What do you notice?
- What do you know?
- Can you show your working out?
- How could you extend the question?

$$\frac{5}{8} \div 4 = \boxed{}$$

Complete

Can you simplify the above answer?



Question 2



Complete

- 1. What do you <u>notice</u>?
- 2. What do you know?
- Can you show your working out?
- 4. How could you <u>extend</u> the question?



Let's review:



- multiply fractions by whole numbers and by fractions
- divide fractions by whole numbers

Draw a circle around the smiley face to show how you feel about what we've just been doing.









CHALLENGE

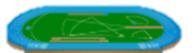
- 1. What do you <u>notice</u>?
- 2. What do you know?
- . Can you show your working out?
 - 4. How could you <u>extend</u> the question?



Ten runners each run $3\frac{2}{5}$ laps of a track. How far did they

run altogether?

Write your answer in its simplest form.





Multiplying fractions by whole numbers



Colour the pictures to show how to find the answers.

Write the answers. Then write the additions for these problems

1.

$$3 \times \frac{2}{7} = \boxed{ } = \boxed{ } = \frac{2}{7} + \frac{2}{7} + \frac{2}{7}$$

2

3.

$$3 \times \frac{2}{9} = \boxed{}$$

|-

=



Multiplying whole numbers by fractions

Knowing that X can mean 'of', use the diagrams to help you work out the answers. Then write the additions that show these problems.

$$\frac{2}{3}$$
 × 9 =



$$\frac{2}{5} \times 2 =$$



Divide fractions by whole numbers (easy questions)

Work out the answers by sharing fairly.

1

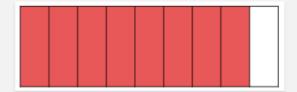








2.













Divide fractions by whole numbers (preparation for harder questions)



Draw horizontal lines across the rectangles to share fairly.

Do you get the same answers as before?

Did you simplify the fractions?

1.

2







