THIRD SPACE LEARNING

HELLO!

Today we are going to learn to solve more ratio problems

Warm up for more ratio problems

1. Write the ratio of red to yellow beads.

[ ] :

b) How many yellow beads will there be for 8 red? [ ]

c) How many red beads will there be for 15 yellow? [ ]

2. What number is a factor of

a) 4 and 6 [ ] b) 5 and 15 [ ] c) 3 and 12? [ ]

What is the highest common factor of

a) 10 and 30 [ ] b) 6 and 12? [ ]

THIRD SPACE LEARNING

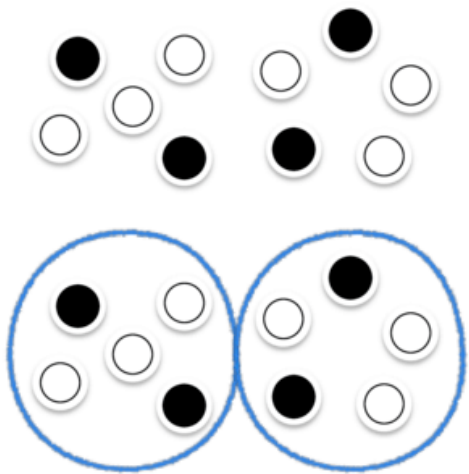
Solving more ratio problems

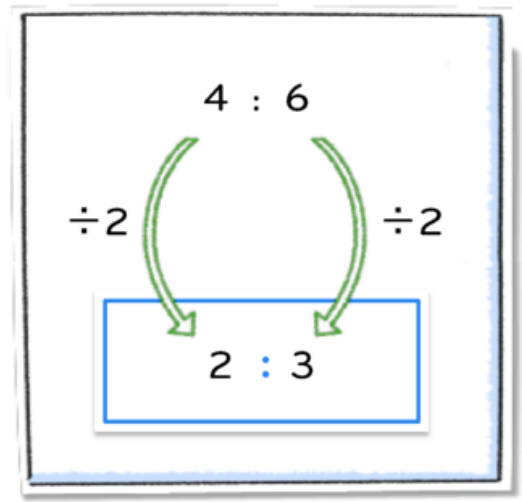
In this session, we are going to learn:

- how to write a ratio in its simplest form
- how to share a quantity in a given ratio

Writing a ratio in its simplest form

The ratio of black to white counters is:



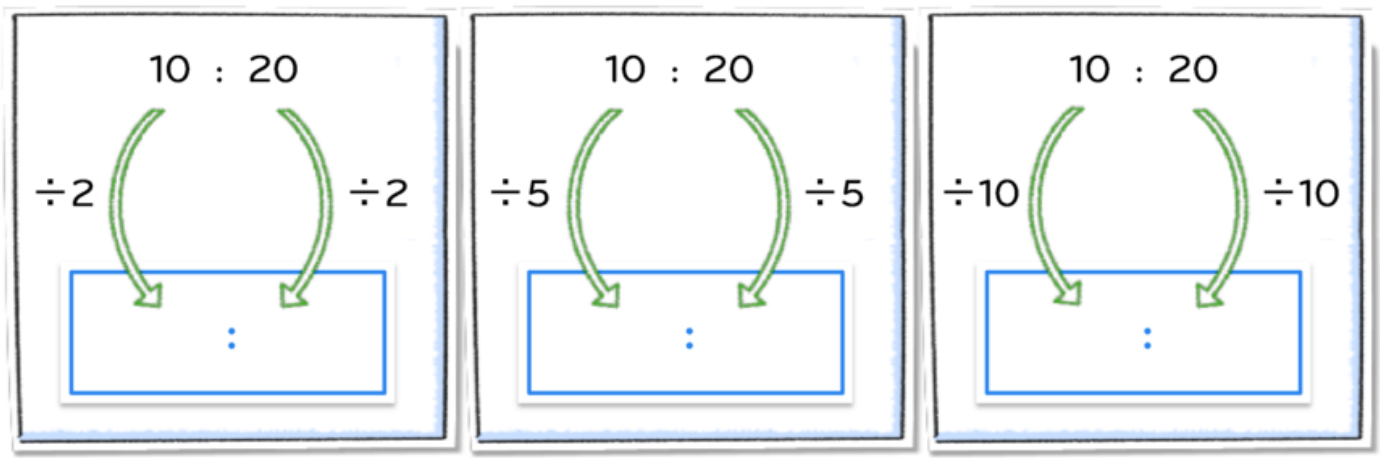


4 : 6 and ☐ : ☐ are equivalent ratios.

Writing a ratio in its simplest form

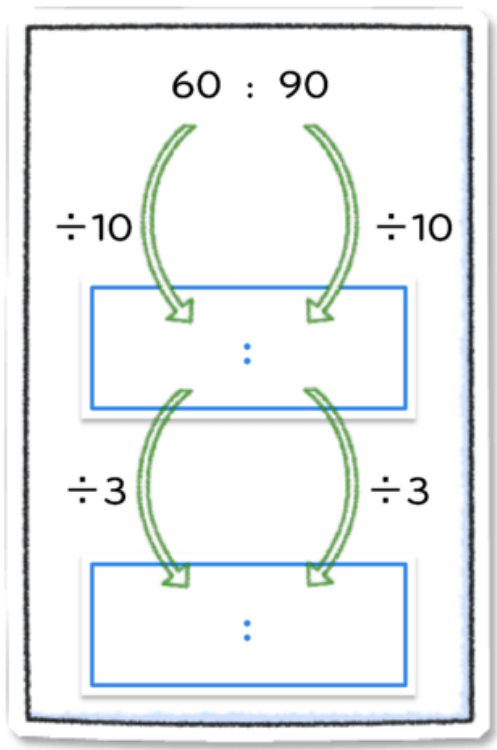
To write a ratio in its simplest form, divide both numbers by their highest common factor.

Which arrow diagram gives 10 : 20 in its simplest form?



Writing a ratio in its simplest form

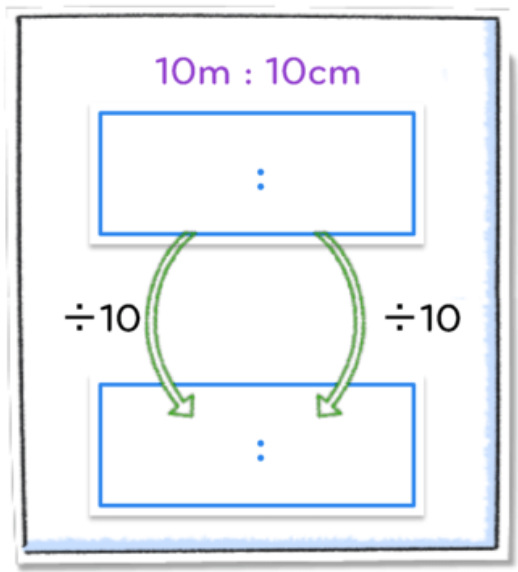
If you don't know the highest common factor, keep dividing by common factors until you can't divide any more.

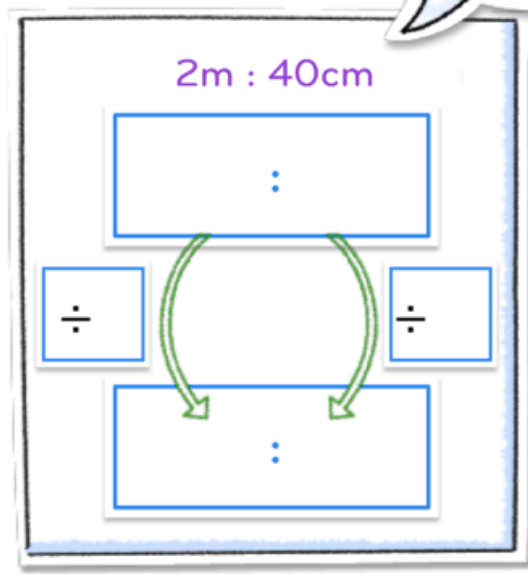


Writing a ratio in its simplest form

When the quantities in a ratio have different units, you need to change them to the same units before you simplify.

Change the metres to cm. Divide by the highest common factor.





Dividing in a given ratio

This pizza costs £6.

Jake has 2 slices, Gabi 1 slice.

They share the pizza in the ratio 2 : 1

So they share the £6 cost in the ratio 2 : 1

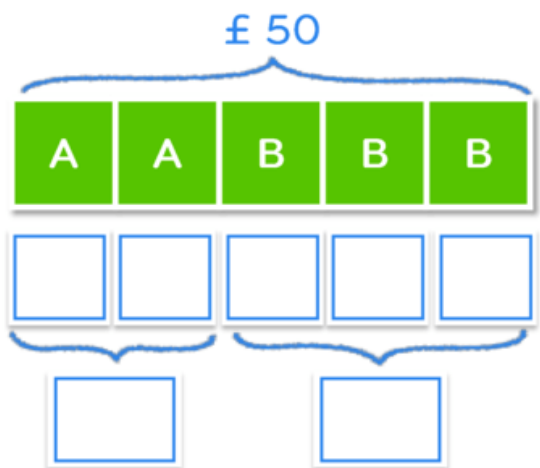
How much does Jake pay?

Dividing in a given ratio

Abi and Ben share £50 in the ratio 2 : 3

a) How many parts are there?

b) What is the value of each part?



c) How much does Abi get?

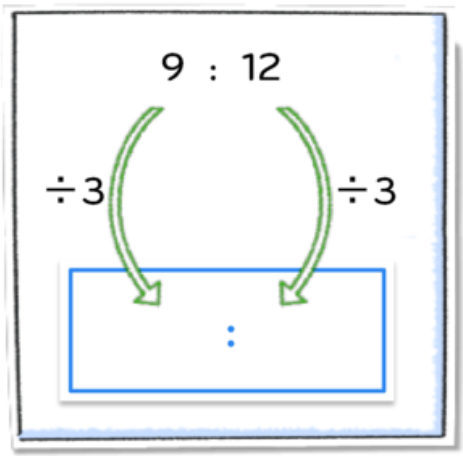
d) How much does Ben get?

You are learning about more ratio problems

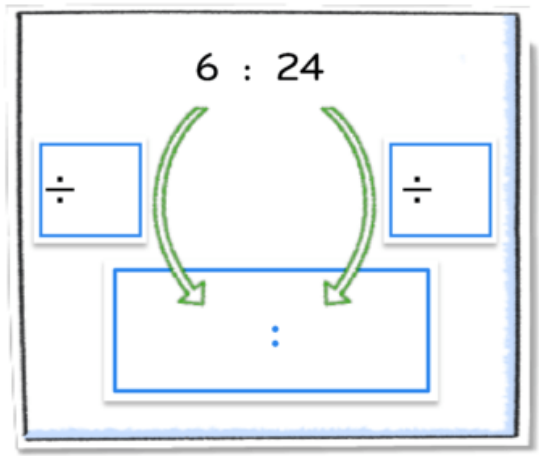
Practice time

1. Write these ratios in their simplest form.

a)



b)



c) 80 : 90

:

d) 35 : 10

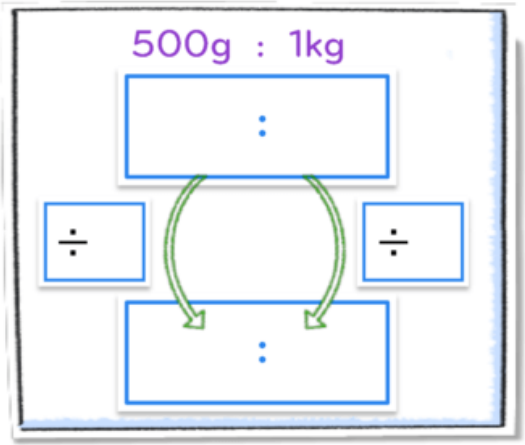
:

e) 18 : 12

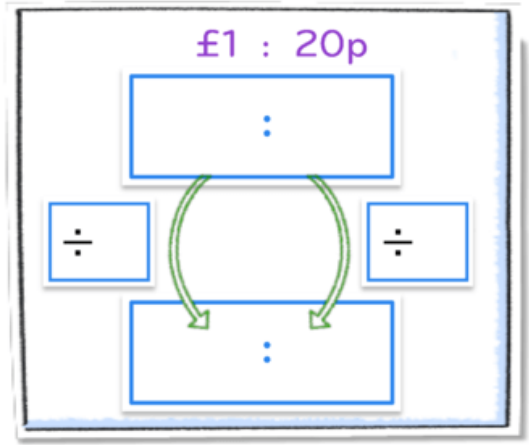
:

2. Write these ratios in their simplest form.

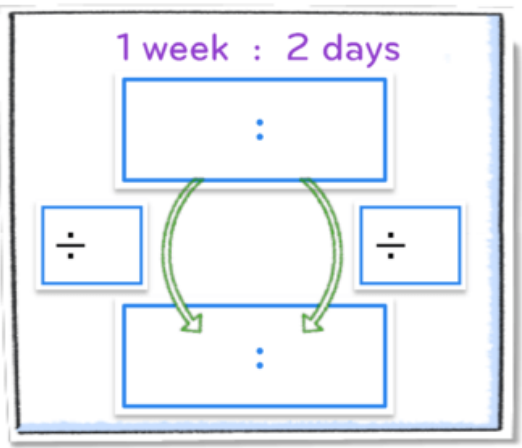
a) 500g : 1kg



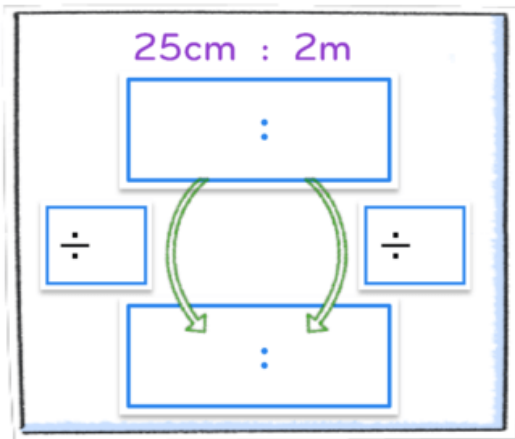
b) £1 : 20p



c) 1 week : 2 days



d) 25cm : 2m



You are learning about more ratio problems

Practice time

3. Share £40 between Charlie and Dan in the ratio 3 : 5.

a) How many parts are there?

b) What is the value of each part?

c) How much does Charlie get?

d) How much does Dan get?

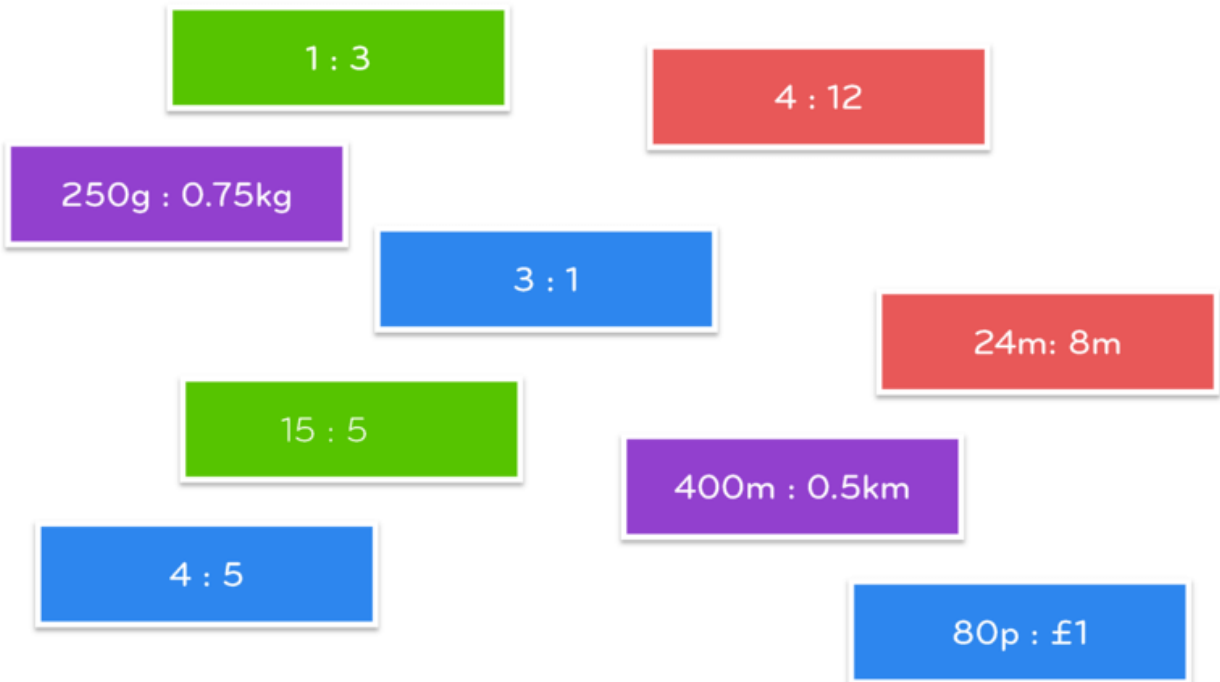
Practice time

4. Share £25 in the ratio 1 : 4

5. Share 54kg in the ratio 5: 4

Practice time

6. Match the equivalent ratios.



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Reflection time

What made you proud in today's session?

You are learning about more ratio problems