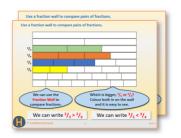
Year 6: Week 4, Day 3

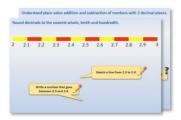
Ratio (2)

Each day covers one maths topic. It should take you about 1 hour or just a little more.

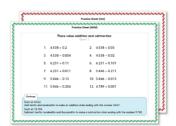
1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.



OR start by carefully reading through the **Learning Reminders**.



 Tackle the questions on the Practice Sheet.
 There might be a choice of either Mild (easier) or Hot (harder)!
 Check the answers.

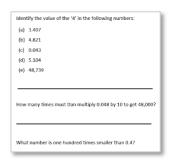


3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

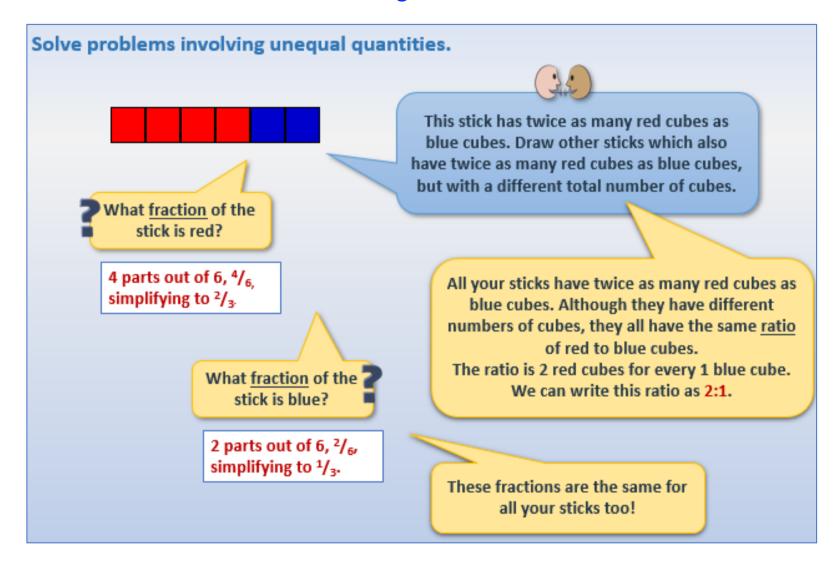


4. Have I mastered the topic? A few questions to Check your understanding.

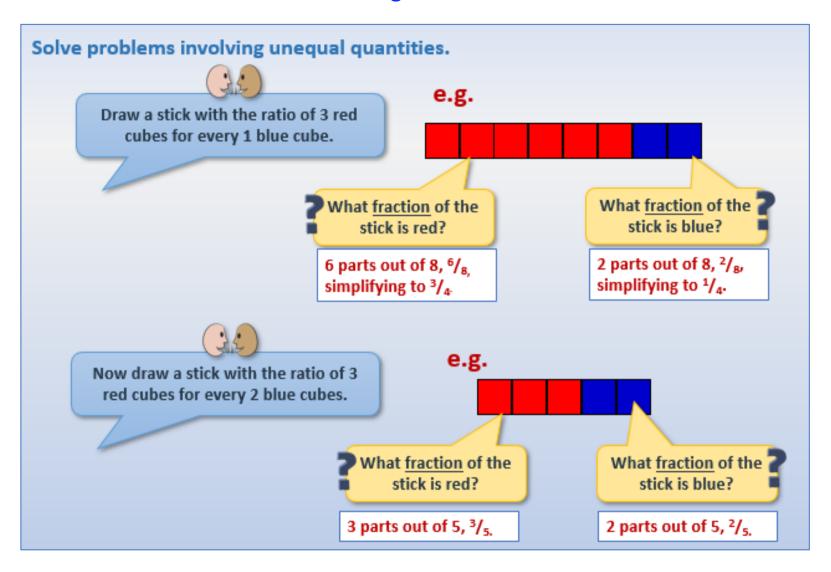
Fold the page to hide the answers!



Learning Reminders

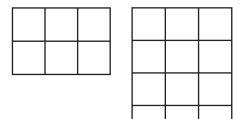


Learning Reminders

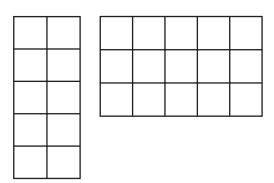


Practice Sheet Mild Ratio

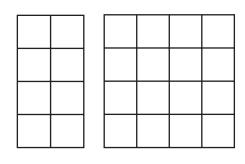
Colour 2 red to 1 blue



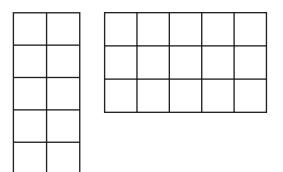
Colour 3 blue to 2 red



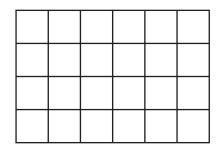
Colour 3 blue to 1 red



Colour 4 blue to 1 red



Colour 5 red to 3 blue



Challenge

Draw and colour your own different rectangle on squared paper for each ratio.

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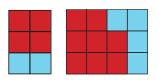
Practice Sheet Hot Ratio word problems

- 1. In a class of 28 children, $\frac{1}{4}$ are aged 10 and $\frac{3}{4}$ are aged 11. How many are 10 and how many are 11? What is the ratio of 11 year old children to 10 year old children?
- 2. In a class of 27 children $\frac{2}{3}$ of children have school dinners and $\frac{1}{3}$ have packed lunches. How many have each? And what is the ratio?
- 3. There are 30 children in a class. There are twice as many boys as girls. How many boys and girls are there?
- 4. If a year group of 60 children has the same ratio of boys to grils, how many boys and girls would there be?

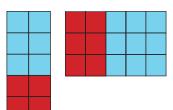
Practice Sheets Answers

Ratio (mild)

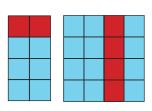
Colour 2 red to 1 blue



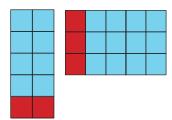
Colour 3 blue to 2 red



Colour 3 blue to 1 red



Colour 4 blue to 1 red



Colour 5 red to 3 blue

Accept a of shadin there are 15 red squares and 9 blue squares (15:9 is equivalent to 5:3)



Ratio word problems (hot)

- 1. In the class of 28 children 7 are aged 10 and 21 are aged 11. The ratio of 11 year old to 10 year old children is 21:7 or 3:1
- 2. In a class of 27 children 18 have school dinners and 9 have packed lunch.

 The ratio is 18:9 or 2:1.
- 3. In the class there are 20 boys and 10 girls.
- 4. In a class of 60 there are 40 boys and 20 girls.

A Bit Stuck? Car Wash

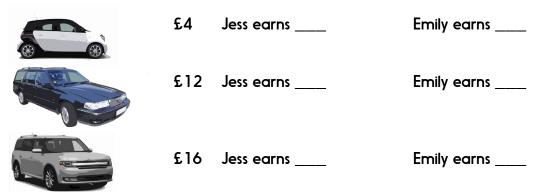
Things you will need:

- A pencil
- 20 pound coins

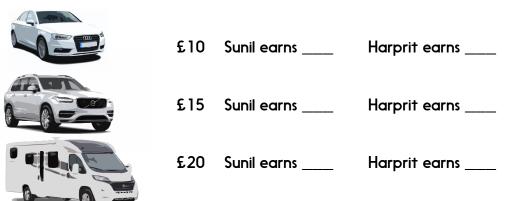


What to do:

- Jess and Emily wash Mum's car. They are paid £8. Jess takes £6 as she did most of the work and Emily has £2.
- Calcuate how much they each should be paid for washing these cars. They split the work up in the same way. Use the coins to help you.



- Sunil and Harprit wash their big brother's car. They are paid £5. Sunil earns £3 and Harpit earns £2.
- Calculate how much they each should be paid for washing these cars. They split
 the work up in the same way.



S-t-r-e-t-c-h:

What was the ratio of what Jess earned compared to Emily? ___ : ___ What was the ratio of what Sunil earned compared to Harprit? ___ : _

Learning outcomes:

- · I can solve ratio problems.
- I am beginning to describe the relationship between quantities as a ratio.

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Check your understanding Questions

Harprit has coloured 2 squares in red and the rest in blue.

The ratio of red to blue squares is 1 to 2.

How many squares are blue?

How many squares has she coloured in total?

Faith has coloured 6 squares red and the rest in blue.

The ratio of red to blue is 3 to 1.

How many squares did she colour altogether?

Write three pairs of numbers with the ratio 3 to 2.

Fold here to hide answers

Check your understanding Answers

Harprit has coloured 2 squares in red and the rest in blue. The ratio of red to blue squares is 1 to 2. How many squares are blue? 4 How many squares has she coloured in total? 6

Faith has coloured 6 squares red and the rest in blue. The ratio of red to blue is 3 to 1. How many squares did she colour altogether? 6 + 2 = 8

Write three pairs of numbers with the ratio 3 to 2. e.g. 6 and 4, 9 and 6, 12 and 8