



**3rd February**

$32 \div 4$

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$3 \times 12$

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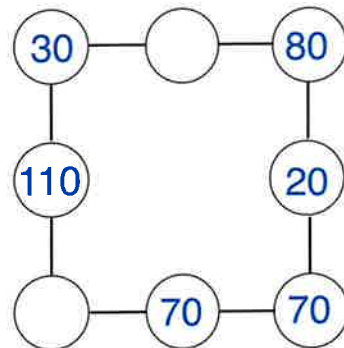
3 pens cost 60p



Find the cost of 1 pen

In the diagram, the three circles in each straight line **must add to the same number**

Write in the missing numbers



Rosie does her maths and science homework.

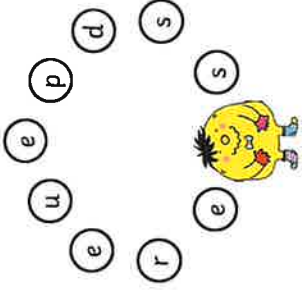
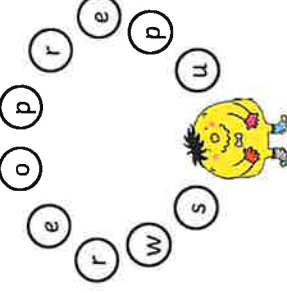
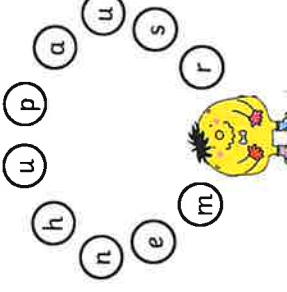
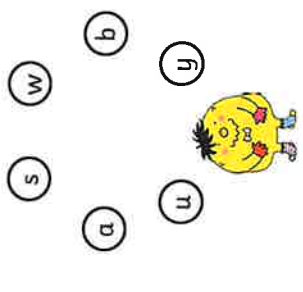
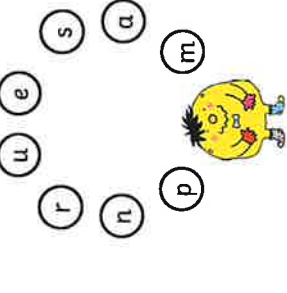
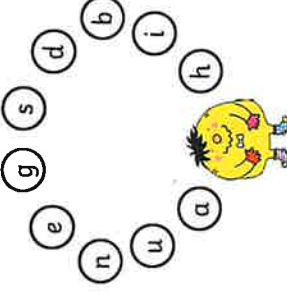
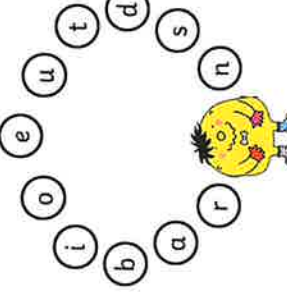
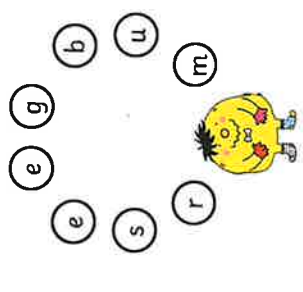
It takes her a total of **two hours**

She spends **90** minutes doing her maths homework.

How many **minutes** does she spend doing her science homework?

# Mr Whoops' Juggling Muddle!

Clumsy Mr Whoops has been juggling with this week's super- and sub- prefix words and he's got in a real juggling muddle! Could you help him to unjumble each word using the clues to help?

<p>To take the place of something old</p> 	<p>A special talent that can't be explained</p> 	<p>A person with extraordinary powers</p> 	<p>An underground tunnel</p> 
<p>A male who can save the world</p> 	<p>A section of non-fiction writing</p> 	<p>A lower position (or in English – a less important clause)</p> 	<p>To plunge below water</p> 

★ **Challenge Task**

Which two spelling words hasn't Mr Whoops muddled up? Could you use each of them in separate sentences that contain plural possessive apostrophes?

## Decimals and Fractions Unit 5

### Problem solving and reasoning questions

Always true, sometimes true or false?

- One half is zero point five
- A number of fifths can be written as an equivalent number of tenths
- A number of tenths can be written as an equivalent number of fifths
- $\frac{4}{5}$  is less than  $\frac{4}{10}$
- Counting in tenths is the same as counting in 0.1s
- If I count on in steps of 0.1, the number after *zero point nine* is *zero point ten*.

These questions should be provided for children to do once the unit has been completed. They assess the children's mastery of the skills and concepts in this unit.

## Sticky tenths

**Focus of activity:** Consolidating understanding of tenths as fractions and as decimals.

### Working together: conceptual understanding

- Lay out three tenths fraction strips (see child instructions). Point out that each strip is split into ten equal pieces. *What do we call each piece? A tenth.* Remind children that we can write one tenth as  $\frac{1}{10}$  or  $0.1$ , i.e. a fraction or a decimal. *How many tenths are in one whole?*
- Count along the three strips in tenths: *one tenth, two tenths, three tenths... nine tenths, one whole, one and one tenth, one and two tenths...* Repeat. This time counting in steps of 0.1: *zero point one, zero point two... zero point nine, one, one point one, one point two...*
- Ask a child to cut one of the strips into tenths.
- Write  $1\frac{4}{10}$  and 1.4. Ask for a volunteer to use the strips to show this amount.
- Sketch a place value grid and ask a volunteer to write 1.4 in it:

1s	0.1s $\frac{1}{10}$ s
1	4

- *We have one whole strip, so write 1 in the 1s column. We have four tenths, so we write 4 in the tenths column.* Point out that the decimal point separates the wholes from the decimal part of the number.
- Write 2.7. Ask a child to show this with strips and another to write the number in the place value grid, taking through the value of each digit.
- Repeat, this time asking a child to show 0.6, then write it in the place value grid. *This time we have no whole strips so we write a 0 in the 1s column.*

### Up for a challenge?

Write 1.2 and 2.1. *Which number is bigger? How do you know?* Show both with the strips. Write 1.7, 2.3 and 0.9. Ask children to write the three numbers in order of size, smallest first.

### Now it's the children's turn:

- Children use their fraction strips to represent given numbers and write them in a place value grid.
- Go round the group and mark their work, checking that they understand that the little pieces are tenths of one whole.

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

If children cope well, ask them to write all their numbers in order from smallest to largest.

### Things to remember

*Remember that we can write one tenth either as 0.1 or  $\frac{1}{10}$ , and ten tenths make one whole. Ask children to write three numbers with one decimal place between 1 and 2. Sketch a line from 1 to 2, drawing marks to show tenths. Help children to mark their numbers on this line.*

You may want to add something that has emerged from the activity. This may refer to misconceptions or mistakes made.

<b>Resources</b>	<b>Outcomes</b>
<ul style="list-style-type: none"><li>• Fraction strips (see child instructions)</li><li>• Scissors</li><li>• Glue sticks</li></ul>	<ol style="list-style-type: none"><li>1. Children can understand the value of each digit in numbers with one decimal place.</li><li>2. Children begin to order numbers with one decimal place.</li></ol>

## Sticky tenths

*Work in pairs, but stick your fraction strips into your own book/on paper.*

### Things you will need:

- Tenths strips
- Scissors
- Glue sticks
- A pencil



### What to do:

- Choose at least three numbers less than 1 and at least three numbers more than 1 to show using your tenths strips.
- Write the number and stick the strips by the side.
- Each time, write the number in the place value grid below.  
Remember to draw the decimal point each time.

**1.1, 0.8, 1.6, 2.1, 1.2, 0.1, 0.3, 2.5, 0.5, 2.2**

1s	0.1s $\frac{1}{10}$ s

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

Write all your numbers in order from smallest to largest.

### Learning outcomes:

- I can understand the value of each digit in numbers with one decimal place.
- I am beginning to order numbers with one decimal place.



# Sticky tenths

