

## Catch-up for Year 6: Key skills from Year 5

### Unit 1 Day 2: Revise 2-place decimals

Teach through the **PowerPoint slides**.



Children can then tackle the questions on the **Practice Sheet(s)**.  
There might be a choice of either **Mild** (easier) or **Hot** (harder).  
Answers are provided.



Children finding it tricky? Try giving **Extra Support**.



Whizzed through the Practice Sheets?  
Challenge children to have a go at the **Investigation**.

## Practice Sheet Mild

### Numbers with two decimal places

#### Section A

Write  $>$  or  $<$  between each pair of numbers.

1. 3.64 3.46
2. 7.32 2.37
3. 43.21 7.89
4. 0.39 0.93

#### Section B

Write a number which belongs between each pair of numbers.

5. 7 and 8
6. 2.1 and 2.2
7. 4.9 and 5
8. 3.45 and 4.45
9. 6.35 and 6.45
10. 8 and 8.1

#### Section C

Round each number to the nearest whole number.

11. 6.78
12. 9.23
13. 8.49
14. 7.05
15. 4.58

# Practice Sheet Hot

## Numbers with two decimal places

### Section A

Write a number which belongs between each pair of numbers.

1. 7 and 8
2. 2.1 and 2.2
3. 4.9 and 5
4. 3.45 and 4.45
5. 6.35 and 6.45
6. 8 and 8.1

### Section B

Round each number to the nearest whole number.

7. 6.78
8. 9.23
9. 8.49
10. 7.05
11. 4.58

### Section C

Round each number to the nearest tenth.

12. 0.59
13. 0.32
14. 4.78
15. 3.26
16. 6.84
17. 2.96

## Practice Sheets Answers

### Numbers with two decimal places (mild)

#### Section A

1.  $3.64 > 3.46$
2.  $7.32 > 2.37$
3.  $43.21 > 7.89$
4.  $0.39 < 0.93$

#### Section B

5. e.g. 7.3, 7.5, 7.62, etc.
6. e.g. 2.13, 2.15, 2.19, etc.
7. e.g. 4.91, 4.95, 4.98, etc.
8. e.g. 3.47, 3.57, 4.25, etc.
9. e.g. 6.39, 6.36, 6.44, etc.
10. e.g. 8.01, 8.05, 8.09, etc.

#### Section C

11.  $6.78 \rightarrow 7$
12.  $9.23 \rightarrow 9$
13.  $8.49 \rightarrow 8$
14.  $7.05 \rightarrow 7$
15.  $4.58 \rightarrow 5$

### Numbers with two decimal places (hot)

#### Section A

1. e.g. 7.3, 7.5, 7.62, etc.
2. e.g. 2.13, 2.15, 2.19, etc.
3. e.g. 4.91, 4.95, 4.98, etc.
4. e.g. 3.47, 3.57, 4.25, etc.
5. e.g. 6.39, 6.36, 6.44, etc.
6. e.g. 8.01, 8.05, 8.09, etc.

#### Section B

7.  $6.78$   $7$
8.  $9.23$   $9$
9.  $8.49$   $8$
10.  $7.05$   $7$
11.  $4.58$   $5$

#### Section C

12.  $0.59 \rightarrow 0.6$
13.  $0.32 \rightarrow 0.3$
14.  $4.78 \rightarrow 4.8$
15.  $3.26 \rightarrow 3.3$
16.  $6.84 \rightarrow 6.8$
17.  $2.96 \rightarrow 3.0$

## Extra Support

### Rainbow additions

**Focus of activity:** Understanding place value in numbers with two decimal places.

#### Working together: conceptual understanding

- Give each child two fraction strips (see child instructions). Ask them to keep one strip whole and cut the second strip into tenths.
- Challenge them to cut one of the tenths into ten tiny pieces! Say that ideally the pieces should be equal in size, but this is very difficult to do in practice. *How many of these tiny pieces would make one whole strip?* Remind children that we call them hundredths. Write  $\frac{1}{100}$  and 0.01 to show how we write one hundredth. *How many hundredths are in each tenth?*
- Ask children to use the strips and pieces to show 1.54. Sketch a place value grid and write 1.54 in it:

1s	0.1s $\frac{1}{10}$ s	0.01s $\frac{1}{100}$ s
1	5	4

- Write 2.63 in the place value grid. Discuss what each digit in the place value grid is worth, relating it to the fraction pieces.
- Give each pair a place value chart (see child instructions). Ask them to ring a number in each column to make 2.63. Compare place value charts. Have they all ringed the same numbers?
- Write the matching addition:  $2 + 0.6 + 0.03$ .
- Ask each pair to ring a number in each column and write the total on their whiteboard. They show the rest of the group. The rest of the group say which three numbers they ringed on the place value chart. Were they right?

#### Up for a challenge?

Challenge children to ring just two numbers on the place value chart, e.g. 3 and 0.04 or 0.5 and 0.06. They write the total.

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

- Children ring one number in each column in a coloured pencil. They write the matching addition using the same colour pencil. Repeat until all numbers are ringed.
- Go round the group and mark their additions as they do them, e.g. initially after three examples.

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

If children cope well, ask them to work out what numbers have been subtracted in  $6.53 - \square = 6.03$  and  $6.53 - \square = 6.5$ . They then write some of their own place value subtractions.

### Things to remember

Remember that a digit has a different value according to its place in a number. Write 5.55. Point to each digit in turn and ask children what each digit is worth.

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

Resources	Outcomes
<ul style="list-style-type: none"><li>• Fraction strips (see child instructions)</li><li>• Scissors</li><li>• 1s, 0.1s and 0.01s place value chart (see child instructions)</li><li>• Mini-whiteboards and pens</li><li>• Coloured pencils</li></ul>	<ol style="list-style-type: none"><li>1. Children understand the value of each digit in a number with two decimal places.</li><li>2. Children write place value additions for numbers with two decimal places.</li><li>3. Children begin to write place value subtractions for numbers with two decimal places.</li></ol>

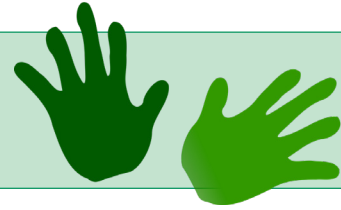
## Extra Support

### Rainbow additions

Work in pairs

#### Things you will need:

- Nine different coloured pencils
- A 1s, 0.1s and 0.01s place value chart



#### What to do:

- Ring one number in each column in a coloured pencil.
- Write the matching addition using the same colour pencil.
- Repeat until all numbers are ringed and you have nine sums, each a different colour.

$2 + 0.4 + 0.05 = 2.45$
$3 + 0.2 + 0.09 =$

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

Work out what numbers have been subtracted:

$$6.53 - \square = 6.03 \quad 6.53 - \square = 6.5$$

Write some of your own place value subtractions.

#### Learning outcomes:

- I understand the value of each digit in a number with two decimal places.
- I can write place value additions for numbers with two decimal places.
- I am beginning to write place value subtractions for numbers with two decimal places.



## Extra Support

### Rainbow additions

1

0.1

0.01

2

0.2

0.02

3

0.3

0.03

4

0.4

0.04

5

0.5

0.05

6

0.6

0.06

7

0.7

0.07

8

0.8

0.08

9

0.9

0.09

The image is a worksheet titled "Extra Support Rainbow additions". It features two large 10x10 grids for addition practice. The grids are decorated with a colorful geometric border and include dashed lines and scissors icons for cutting. The title is in a blue box at the top center. The grids are separated by a vertical dashed line. The entire worksheet is framed by a decorative border of colorful triangles.

## Investigation

### How many numbers?

#### What to do:

- With a partner, you are going to find out how many numbers between 1 and 10, with one or two decimal places, contain a digit '9'.

**Hint!**  
**Start by finding...**

How many numbers between 1 and 2 have a 9 in the tens place?

How many numbers between 1 and 2 have a 9 in the hundreds?

- How can you be sure you have found them all?
- What strategies did you use to tackle this task?
- How did you record and organise your investigations?
- Did you spot any useful patterns?

#### Challenge

Do you think the answer will be the same for numbers that contain a zero...?

#### Learning outcomes:

- I can say what each digit represents in a number with two decimal places.