

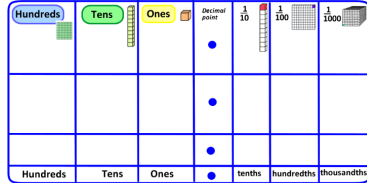
## Maths Planning and Ideas



**Week Commencing: 20.4.20**

**Year Group: Year 5**

Times Table Rockstars website - <https://trockstars.com/>

	Monday	Tuesday	Wednesday	Thursday	Friday
Area of Learning	LC: Can you understand thousandths?	LC: Can you understand thousandths as decimals?	LC: Can you round decimals?	LC: Can you compare decimals?	LC: Can you order decimals?
Activity	<p><b>Starter – Times Table Rockstars activities</b></p> <p>Before the lesson, it might be useful to recap with the children the different place value of each digit in a decimal number. You could use (or draw) something like this and ask children to work out the value of each digit. There is a larger one below in resources (eg. <math>5.67 = 7 = 7/100</math> or <math>0.07</math>)</p>  <p><b>Main Teaching</b> Go to the White Rose website and watch the video for 'Lesson 4 Understand Thousandths' this is included under Week 1 (ignore the part where it says 'have a go at</p>	<p><b>Starter – Times Table Rockstars activities</b></p> <p>NB. This is a similar lesson to yesterday but now the children are going to be introduced to a number more than a whole (where there are also ones and tens etc). For example, a number like: <math>4.567</math> or <math>56.478</math>.</p> <p><b>Main Teaching</b> Go to the White Rose website and watch the video for 'Lesson 5 Thousandths as decimals' (ignore the part where it says 'have a go at questions 1 or 2etc) <a href="https://whiterosemaths.com/homelearning/year-5/">https://whiterosemaths.com/homelearning/year-5/</a></p> <p><b>Activity</b> Print out (or draw) the place value chart below (included in resources)</p>	<p><b>Starter – Times Table Rockstars activities</b></p> <p><b>Main Teaching</b> Go to the White Rose website and watch the video for 'Lesson 1 Step 6 Thousandths as decimals' . You need to click into Week 2 to access this. Have a go at the Flashback activity at the beginning. <a href="https://whiterosemaths.com/homelearning/year-5/">https://whiterosemaths.com/homelearning/year-5/</a></p> <p><b>Activity</b> Complete the worksheet below. When rounding the numbers using the number line, it might be useful to help your child write in some of the missing values (as demonstrated in the answers)</p> <p><b>Challenge (Optional)</b></p>	<p><b>Starter – Times Table Rockstars activities</b></p> <p><b>Main Teaching</b> Go to the White Rose website and watch the video for 'Lesson 1 Step 7 Order and Compare Decimals' . You need to click into Week 2 to access this. Have a go at the Flashback activity at the beginning. Ignore the part where it says 'Have a go at Question 1 etc)</p> <p><b>Activity</b> Complete the game below. <a href="https://www.teacherled.com/resources/decimals/comparedecimals/">https://www.teacherled.com/resources/decimals/comparedecimals/</a> If this will not load, try typing 'topmarks comparing decimals' into Google, go into the Topmarks website and it's the top one called Comparing Decimals.</p>	<p><b>Starter – Times Table Rockstars activities</b></p> <p>NB. A similar lesson to yesterday, but this time children are ordering more than two decimals and have to place a sequence of decimals in order.</p> <p><b>Activity</b> Complete the ordering decimals activity game below. Go to the top where it says 'options' and change the options to suit the difficulty (eg. decimal thousandths) <a href="https://www.mathsisfun.com/numbers/ordering-game.php">https://www.mathsisfun.com/numbers/ordering-game.php</a></p> <p><b>Challenge (Optional)</b> Try this game for a challenge! <a href="https://nrich.maths.org/10326">https://nrich.maths.org/10326</a></p>

questions 1 or 2 etc on the video)

<https://whiterosemaths.com/homelearning/year-5/>

Now repeat the earlier activity where the children have the identify the digit in each number you write in the place value grid (eg.  $5.678 = 8 = 8$  thousandths or  $8/1000$ )

### Key Questions

*How is a thousand different to a thousandth?*

*What is the value of this digit?*

*How many parts is the square made up of?*

### Activity

Complete the worksheet below. Answers are included.

Hundreds	Tens	Ones	decimal point	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
Hundreds	Tens	Ones	•	tenths	hundredths	thousandths

With your child, draw a number (using dots, counters or digits) and the children have to say what that number would be. For example: 45.672. Challenge your child with questions such as: *How many tenths are in this number? How many thousandths are in this number? Is this number bigger or smaller than \_\_\_?*

Here is a very difficult challenge problem for rounding decimals!!

<https://nrich.maths.org/10428>

## **Where can I complete further work?**

[Twinkl](#) – Subscription service used by schools is offering a free premium service for teachers, parents and children to use whilst schools are closed. Enter the code **UKTWINKLHELPS** for access to worksheets, powerpoints and interactive games to support all areas of learning.

[Classroom Secrets](#) – Free Maths, Reading and Grammar home learning packs and interactive resources for all ages.

[White Rose Maths](#) – Free Maths home learning resources for all ages. Watch the videos and try the questions.

[Primary Stars](#) – Free Maths home learning packs for Year 1 and 2.






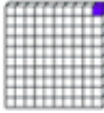
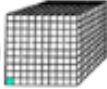



[BBC Bitesize Primary](#) – Free learning resources available for KS1 and KS2 across all subjects.

[I See Maths](#) – Free daily home maths lessons hosted by Gareth Metcalfe. Follow the link for videos, information and resources.

[Top Marks](#) – Free educational resources and games for English and Maths.

[ICT Games](#) – Free educational resources and games for English and Maths.

Place Value Grid (you might want to print this out or copy it out as it will be useful on all days, especially Tuesday)

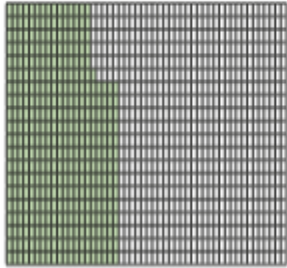
<b>Hundreds</b> 	<b>Tens</b> 	<b>Ones</b> 	<i>Decimal point</i> 	$\frac{1}{10}$ 	$\frac{1}{100}$ 	$\frac{1}{1000}$ 
						
						
<b>Hundreds</b>	<b>Tens</b>	<b>Ones</b>		<b>tenths</b>	<b>hundredths</b>	<b>thousandths</b>

# Monday – Understand Thousandths – Activity Worksheet

4 What fraction of each square has been shaded?

Write each number as a fraction and as a decimal.

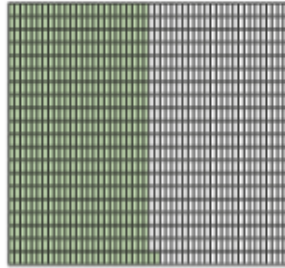
a)



fraction =

decimal =

b)

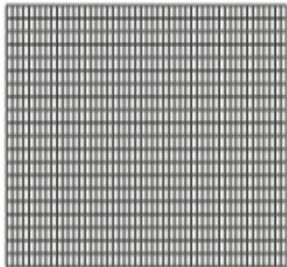


fraction =

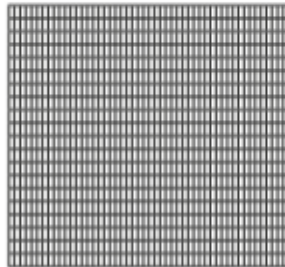
decimal =

5 Colour the grids to represent the fraction and decimal.

a)  $\frac{73}{1000}$



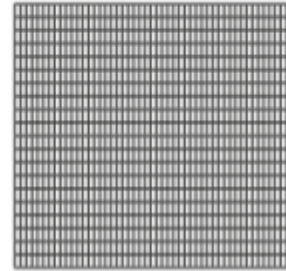
b) 0.302



6 Represent these numbers on a place value chart.

a) 1.372      b) 0.091      c) 3.542

7 Show that  $\frac{400}{1000}$  is the same as 0.4



8 Write the numbers represented by the place value charts.

a)

Ones	Tenths	Hundredths	Thousandths
<div style="display: flex; justify-content: space-around;"> <span>1</span><span>1</span><span>1</span> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <span>1</span> </div>	<div style="display: flex; justify-content: space-around;"> <span>0.1</span><span>0.1</span> </div>	<div style="display: flex; justify-content: space-around;"> <span>0.01</span><span>0.01</span><span>0.01</span><span>0.01</span> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <span>0.01</span><span>0.01</span><span>0.01</span> </div>	<div style="display: flex; justify-content: space-around;"> <span>0.001</span><span>0.001</span><span>0.001</span> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <span>0.001</span><span>0.001</span><span>0.001</span> </div>

b)

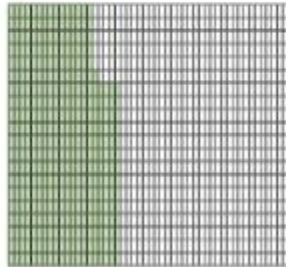
Ones	Tenths	Hundredths	Thousandths
	<div style="display: flex; justify-content: space-around;"> <span>0.1</span><span>0.1</span><span>0.1</span> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <span>0.1</span><span>0.1</span> </div>		<div style="display: flex; justify-content: space-around;"> <span>0.001</span><span>0.001</span> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <span>0.001</span><span>0.001</span> </div>

# Monday – Understand Decimals – Worksheet Answers

4 What fraction of each square has been shaded?

Write each number as a fraction and as a decimal.

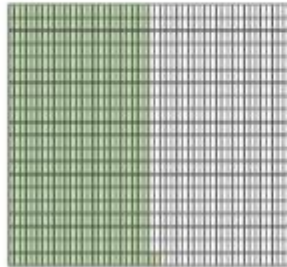
a)



fraction =  $\frac{37}{100}$

decimal = 0.37

b)

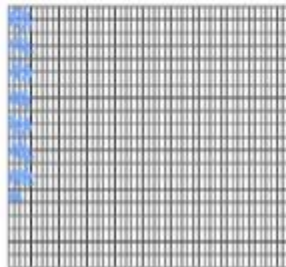


fraction =  $\frac{52}{100}$

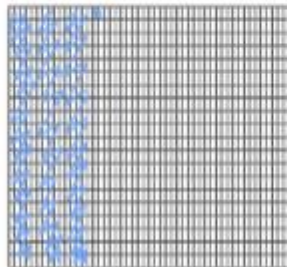
decimal = 0.52

5 Colour the grids to represent the fraction and decimal.

a)  $\frac{73}{1000}$



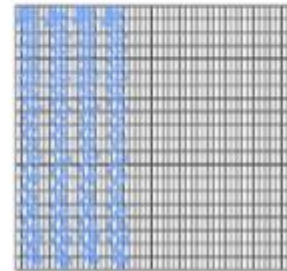
b) 0.302



6 Represent these numbers on a place value chart.

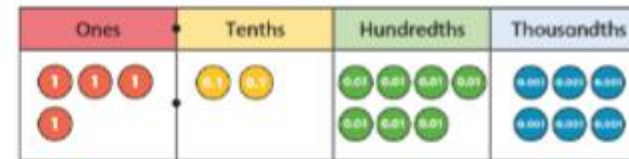
a) 1.372      b) 0.091      c) 3.542

7 Show that  $\frac{400}{1000}$  is the same as 0.4



8 Write the numbers represented by the place value charts.

a)



6.276

b)



0.504

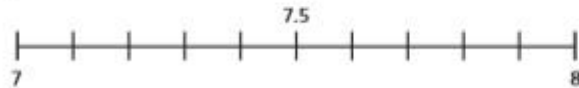
# Wednesday – Rounding Decimals – Worksheet

## Rounding decimals



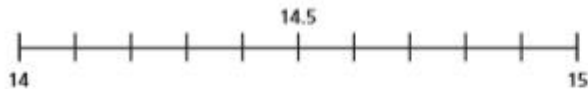
- 1 Show the position of each number on the number line.  
Use the number line to round these decimals to the nearest whole number.

a) 7.2



The nearest whole number is

b) 14.8



The nearest whole number is

c) 6.5



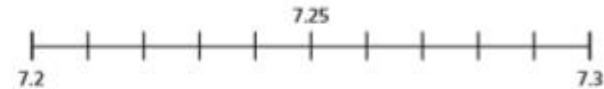
The nearest whole number is

Explain to a partner how to round decimal numbers to the nearest whole number.



- 2 Use the number line to round these decimal numbers to the nearest tenth and the nearest whole number.

a) 7.23



The nearest tenth is

The nearest whole number is

b) 14.56



The nearest tenth is

The nearest whole number is

c) 6.45



The nearest tenth is

The nearest whole number is

Explain to a partner how to round decimal numbers to one decimal place.

## Wednesday – Rounding Decimals – Answers

### Rounding decimals



- 1 Show the position of each number on the number line.

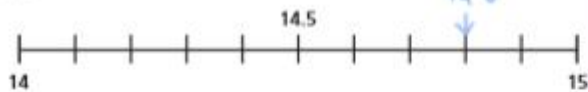
Use the number line to round these decimals to the nearest whole number.

a) 7.2



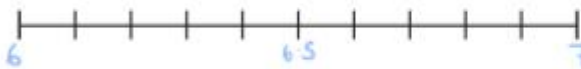
The nearest whole number is

b) 14.8



The nearest whole number is

d) 6.5



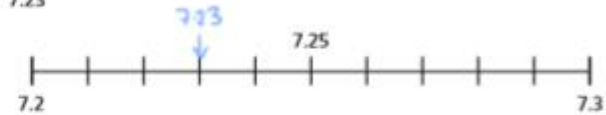
The nearest whole number is

Explain to a partner how to round decimal numbers to the nearest whole number.



- 2 Use the number line to round these decimal numbers to the nearest tenth and the nearest whole number.

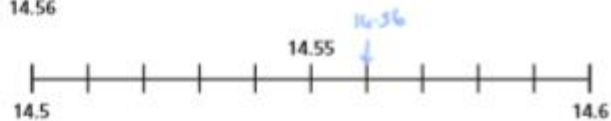
a) 7.23



The nearest tenth is

The nearest whole number is

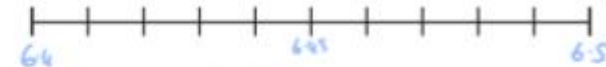
b) 14.56



The nearest tenth is

The nearest whole number is

d) 6.45



The nearest tenth is

The nearest whole number is

Explain to a partner how to round decimal numbers to one decimal place.