



Year 5 Maths Home Learning | Summer Term



W.C. 8th June 2020

<https://www.bbc.co.uk/bitesize/tags/zhgppg8/year-5-and-p6-lessons/1>

Maths

Use these worksheets to work from and not on. All you need is a piece of paper, pencil and maybe a ruler.

After watching the videos and having a go at the practise activities, have a go at these activities. Depending on your confidence choose Mild, Medium or Spicy.

Extensions – You may wish to deepen your learning by looking at the Collins Worksheets provided by the BBC too.



Monday

<https://www.bbc.co.uk/bitesize/tags/zhgppg8/year-5-and-p6-lessons/1>

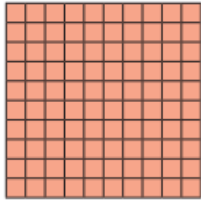
Understand and represent decimals with up to 2 decimal places as fractions

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

<https://www.bbc.co.uk/bitesize/topics/zhdwxnb/articles/z9n4k7h>

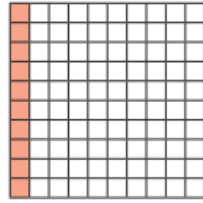
Mild

- 1 This grid represents 1



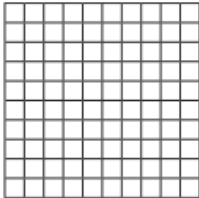
- This grid represents 0.1 or

$$\frac{10}{100} \text{ or } \frac{1}{10}$$

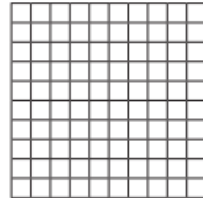


Colour the hundred squares to represent the fractions.

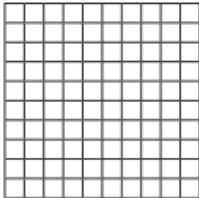
a) $\frac{2}{100}$



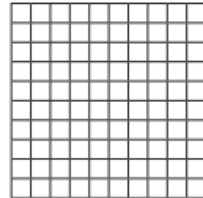
c) $\frac{20}{100}$



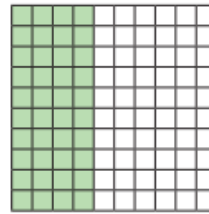
b) $\frac{2}{10}$



d) $\frac{90}{100}$



- 2 Complete the numbers to show how much of the square is shaded.



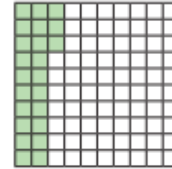
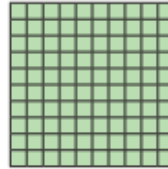
$$\frac{\boxed{}}{100}$$

$$\frac{\boxed{}}{10}$$

$$0.\underline{}$$

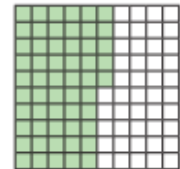
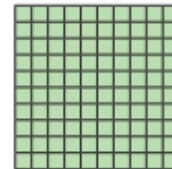
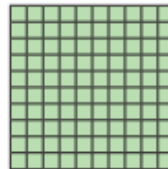
- 3 What fractions and decimals are represented?

a)



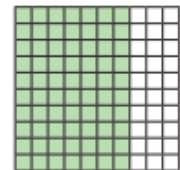
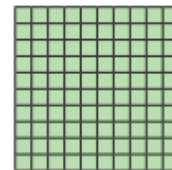
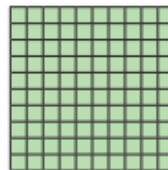
$$1 \frac{23}{100} = \boxed{}$$

b)



$$\boxed{} \frac{\boxed{}}{100} = \boxed{}$$

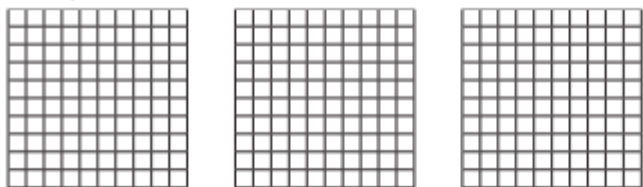
c)



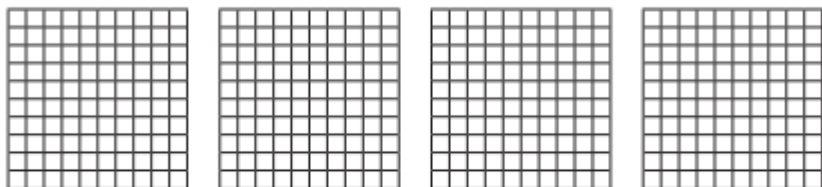
$$\boxed{} \frac{\boxed{}}{10} = \boxed{}$$

Medium

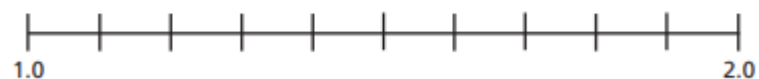
a) Represent 2.15



b) Represent $3\frac{7}{10}$



5 a) Label the number line with the decimals.



b) Label the number line with the fractions.



Spicy

6 Complete the table.

Decimal	Decimal (expanded form)	Fraction	Fraction (expanded form)	In words
2.13	$2 + 0.1 + 0.03$	$2 \frac{13}{100}$	$2 + \frac{1}{10} + \frac{3}{100}$	2 ones, 1 tenth and 3 hundredths
4.37		$4 \frac{\boxed{}}{100}$		
	$5 + 0.6 + 0.02$			
				8 ones and 2 hundredths

7 Write the decimals as fractions.
Give your answer as a mixed number.

a) $32.6 = \boxed{} \frac{\boxed{}}{10}$

c) $13.08 = \boxed{} \frac{\boxed{}}{100}$

b) $2.03 = \boxed{} \frac{\boxed{}}{100}$

d) $3.98 = \boxed{} \frac{\boxed{}}{100}$

8 Use the digits 3, 4 and 5 to complete the decimal number.

. 0

How many different numbers can you make?

Want More? – Have a go at the 2Dos on Purple Mash.

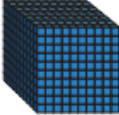
Tuesday

<https://www.bbc.co.uk/bitesize/tags/zhgppg8/year-5-and-p6-lessons/1>

Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents

Mild

- 1 Tommy is using base 10 to represent decimals.

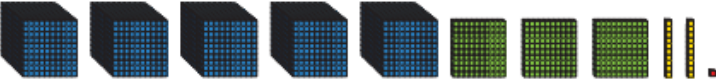
He uses  to represent 1 whole.

He uses  to represent $\frac{1}{10}$ or 0.1

He uses  to represent $\frac{1}{100}$ or 0.01

He uses  to represent $\frac{1}{1000}$ or 0.001

What decimals are represented?

a) 

b) 

- 2 a) Represent each number using base 10

0.512

1.352

2.003

- b) Use your representations to help you complete the statements.

$$0.512 = 0.5 + 0.01 + \boxed{}$$

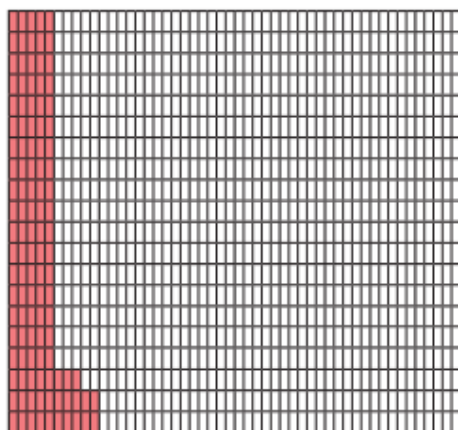
$$1.352 = 1 + \boxed{} + \boxed{} + \boxed{}$$

$$2.003 = \underline{\hspace{2cm}}$$

3

Here is a thousand square.

Part of the square has been coloured.



a) Why do you think it is called a thousand square?

b) What fraction of the square has been coloured?

1000

c) Write the fraction as a decimal.

--

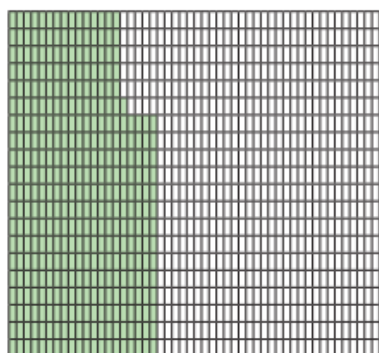
Medium

4

What fraction of each square has been shaded?

Write each number as a fraction and as a decimal.

a)



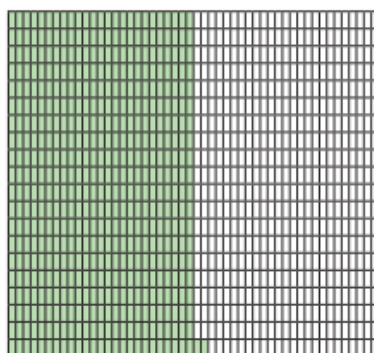
fraction =

--

decimal =

--

b)



fraction =

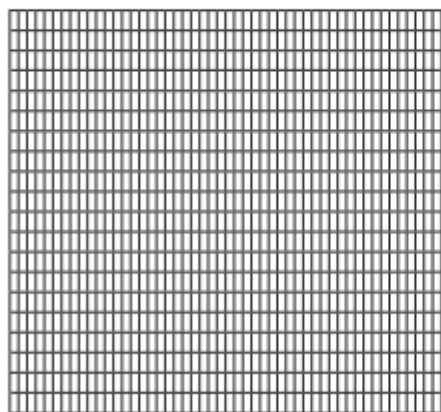
--

decimal =

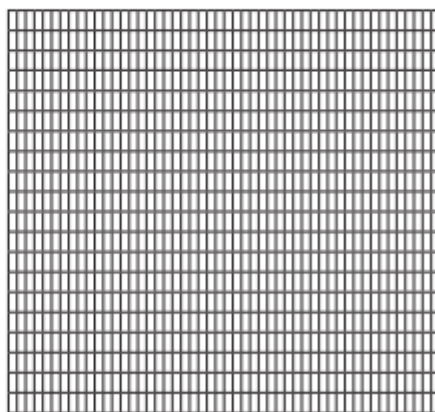
--

- 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

Spicy

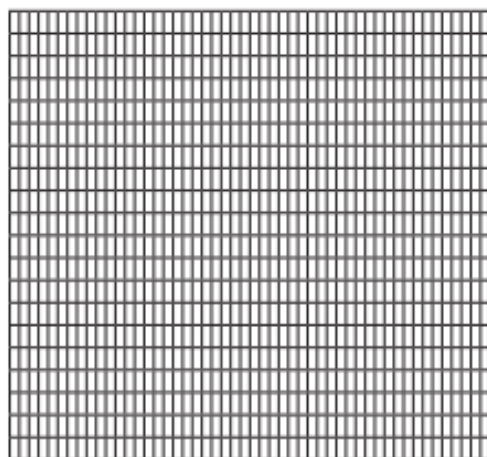
- 6 Represent these numbers on a place value chart.

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
			

b)

Ones	Tenths	Hundredths	Thousandths
			

Wednesday

<https://www.bbc.co.uk/bitesize/tags/zhgppg8/year-5-and-p6-lessons/1>

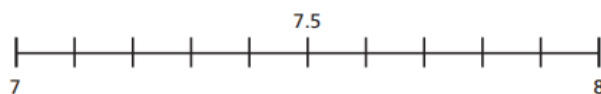
Rounding Decimals

Mild

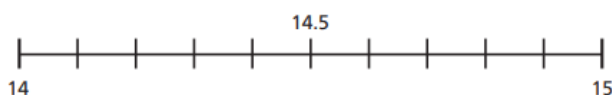
1 Show the position of each number on the number line.

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

a) 7.2

The nearest whole number is

b) 14.8

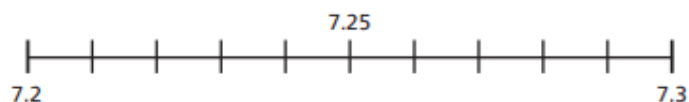
The nearest whole number is

c) 6.5

The nearest whole number is

- 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

- 3 a) When rounding to the nearest tenth, how many digits will there be after the decimal point?

b) Round each number to one decimal place.

1.33

4.03

1.34

4.04

1.35

4.05

1.36

4.06

1.37

4.07

Medium

- 3 a) When rounding to the nearest tenth, how many digits will there be after the decimal point?

b) Round each number to one decimal place.

1.33

4.03

1.34

4.04

1.35

4.05

1.36

4.06

1.37

4.07

- 4 Round each number to the nearest tenth.

a) 4.21

d) 11.86

g) 12.92

b) 8.09

e) 5.67

h) 10.65

c) 4.84

f) 0.15

- 5 Circle each decimal that rounds to 6.2

6.32

6.23

6.27

6.17

6.12

6.25

Explain your reasoning.

Spicy

- 6 Here are the weights in kilograms of some parcels.



3.48 kg



1.42 kg



10.65 kg



1.03 kg

a) Round the weight of each parcel to 1 decimal place.

kg kg kg kg

b) The weight of each parcel has been rounded to the nearest 100g.

Is this true or false? _____

Talk about it with a partner.

7 Amir is thinking of a number.

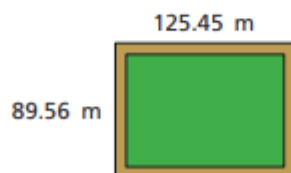
Rounded to the nearest whole his number is 5

Rounded to the nearest tenth his number is 4.8

Write at least four different numbers that Amir could be thinking of.

8 A farmer is building a new fence for her sheep field.

Here are the measurements.



She wants to build a fence around the whole field.

Estimate how much fencing you think she will need.

Thursday

Order and compare decimals

Mild

1 Which number is greater?

Tick your answer.

T	O	Tth	Hth
	1 1	0.1 0.1	0.01 0.01
		0.1	0.01 0.01
			0.01

T	O	Tth	Hth
	1 1		0.01 0.01
	1 1		
	1 1		

Explain your answer.

2 Which is the smaller number?

Tick your answer.

T	O	Tth	Hth
10	1 1	0.1 0.1	0.01 0.01
	1 1	0.1	0.01 0.01
			0.01

T	O	Tth	Hth
10	1 1	0.1 0.1	
	1 1	0.1 0.1	
		0.1 0.1	

Explain your answer.

4 Here are some numbers in a place value chart.

Ones	Tenths	Hundredths	Thousandths
3	2	3	4
3	1	6	
3	2	0	8
3	1	4	5

Write the numbers in order, starting with the greatest.

Medium

- 4 Here are some numbers in a place value chart.

Ones	Tenths	Hundredths	Thousandths
3	2	3	4
3	1	6	
3	2	0	8
3	1	4	5

Write the numbers in order, starting with the greatest.

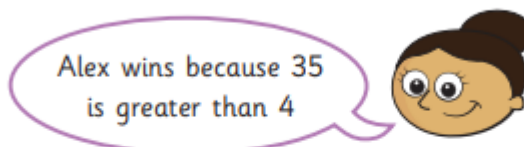
- 5 Mo, Amir, Ron, Teddy and Jack are measuring their heights with a metre rule.

Mo	Amir	Ron	Teddy	Jack
				
1.35 m	1.53 m	1.32 m	1.3 m	1.5 m

Write the names and heights of the children in order from shortest to tallest.

Name	Height

- 6 Alex and Dora are competing in the long jump.
Alex jumps 1.35 metres and Dora jumps 1.4 metres.



- a) Is Dora correct? _____

Talk about it with a partner.

- b) Kim joins in the competition.

What is the shortest distance she can jump to go into the lead?

Spicy

- 7 Write the numbers in ascending order.

a) 0.45 0.654 0.546 0.405

--	--	--	--

b) 7.2 kg 7.212 kg 7.21 kg

--	--	--

c) 25.391 25.309 25.093 25.193

--	--	--	--

- 8 Dexter is thinking of a number.



It is a decimal number
with 2 decimal places that is
greater than 2.47 but
less than 2.58

What possible numbers could Dexter be thinking of?

- 9 Tick the numbers that are equal to 2.5

Circle the numbers that are greater than 2.5

You will need to convert the mixed numbers to decimal numbers first.

2.05	$2\frac{5}{10}$	$2\frac{1}{2}$
$2\frac{5}{100}$	2.53	$2\frac{3}{5}$
2.501	$2\frac{80}{100}$	$2\frac{3}{10}$

Now, challenge yourself and your friends in year 5 to a Times Tables Rockstars Battle!

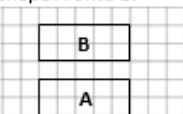
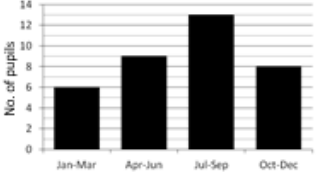
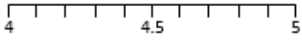


Friday

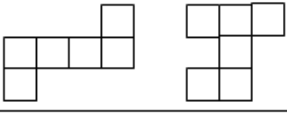
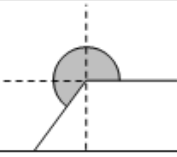
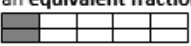
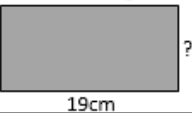
Today you may wish to challenge yourself with the online challenges or the Key Skills tasks! But make sure to have plenty of fun with maths today!

Key Skills

Mild

A: Place Value, Add and Subtract		B: Multiply, Divide and Fractions		C: Measure, Geometry and Statistics	
1. What is the missing number? 18 24 36 42	4:1	11. $7 \times 9 =$	4:9	21. What is the area of this shape? 	4:20
2. What is the missing number? 2000 3000 4000	4:1	12. Circle the sum that is the same as 16×7 : $4 \times 7 \times 4$ $2 \times 8 \times 6$	4:10		
3. Round this number to the nearest 100: 3,192	4:2	13. $138 \times 9 =$	4:11	22. Circle the name that describes a 90° angle. Right angle Obtuse angle Acute angle	4:24
4. What is 1,000 less than 10,293?	4:2	14. To work out 9×58 you could do: $\times 9 + 8 \times$	4:12	23. To transform shape A onto B: Translate A units . 	4:27
5. What is 12 less than 4?	4:3	15. Circle the equivalent fraction to $\frac{1}{9}$. $\frac{3}{27}$ $\frac{4}{18}$ $\frac{5}{36}$	4:13		
6. What is the value of the 2 in this number? 6,283	4:4	16. Complete the sequence: $\frac{37}{100}$ $\frac{38}{100}$ $\frac{39}{100}$	4:14	24. Month of birth of Class 7 pupils. 	4:29
7. Write the number 91 in Roman numerals.	4:5	17. $\frac{4}{3} + \frac{1}{3} =$	4:15		
8. $2,472 - 598 =$	4:6	18. Write 0.01 as a fraction.	4:16	How many were born in the first half of the year?	4:30
9. Write the sum to check $3,250 - 975 = 2,275$: $3,250$ 975 $2,275$	4:7	19. $11 \div 10 =$	4:17	25. How many pupils are in Class 7?	
10. There are 73 people on a bus. 15 get off & 28 get on. How many now?	4:8	20. Label 4.95cm on the ruler section: 	4:18		
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)		Y (10-19)	G (20-25)

Medium and Spicy

A: Place Value, Add and Subtract		B: Multiply, Divide and Fractions		C: Geometry and Problem Solving	
1. Write < or > to make this correct: 850,200 805,200	5:1	11. Circle all the multiples of 7. 12 21 30 35	5:8	21. Which of these three numbers is the largest ? a. 0.67 b. 0.534 c. 0.6	5:18
2. Write 1,600,850 in words.	5:1	12. The number 45 has two prime factors . What are they?	5:9	22. Tick (✓) the net of a cube.	5:24
3. Round 596,147 to the nearest hundred .	5:2	13. $3,464 \times 4$	5:10		
4. What is the missing number? 235,875 236,875 238,875	5:2	14. 1.09×1000	5:11		
5. Find the difference in temperatures. London -9°C Glasgow 11°C	5:3	15. Complete the sequence of square numbers . 1 4 9 16	5:12	23. Estimate the size of this angle:	5:25
6. Write this number in Roman Numerals: 1,504	5:4	16. Write <, = or > to make this correct: $\frac{3}{4}$ $\frac{10}{12}$	5:13		
7. $1,035,230 - 302,015 =$	5:5	17. Find an equivalent fraction of $\frac{2}{10}$. 	5:14	24. Calculate the missing angle labelled a:	5:26
8. $27,495 + 8,420 =$	5:5	18. Write $5\frac{5}{8}$ as an improper fraction .	5:15		
9. Complete this sum without written working. $15,600 + 7,400 =$	5:6	19. $3\frac{4}{5} \times 2 =$	5:16	25. The perimeter of this rectangle is 50cm.	5:27
10. A train has 1,200 seats. 457 seats are empty. How many are <u>on board</u> ?	5:7	20. Round 7.51 to the nearest whole number.	5:17	How long is the <u>missing</u> side? 	
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	