Tuesday 16ᵗʰ June

Hello Year 5,

We can't believe that it's already the middle of June!

We hope that you have had a great week and managed to get outside even though the sun hasn't been shining as much as in previous weeks.

Here are the activities for this week for you to follow and complete. We're finishing our writing unit, learning about decimal numbers, being arty and also developing our skipping skills! If you have some spare time or want to do some extra learning, you could visit https://www.bbc.co.uk/bitesize or https://www.thenational.academy/online-classroom where there are lots of lessons and activities to choose from.

As always, try to read for at least 20 minutes a day and take Accelerated Reader quizzes from home by using this link Howley Grange Renaissance at home and logging on as usual using your username and password. To check that the book you are reading has a quiz, you can check it using on Accelerated Reader Bookfinder. Remember you can read or listen to books online using https://readon.myon.co.uk and https://stories.audible.com/start-listen.

Remember as well as learning, take the time to relax, exercise and be kind to yourselves and each other.

Best wishes,

Miss Savage, Mrs Montgomery and Mrs Graham too!

What other rare, not yet discovered, creature could you write about?

★ First, let's create a new animal to explore. If you have access to the Internet, type this into Google:

https://www.switchzoo.com

Here, you can create your own creature by blending zoo animals together. Print off your animal and stick it below. OR you can create your creature yourself. Simply draw into the box below to design a new animal that you might find on land or in the sea.

MATHS 10-4-10

1. Which of these fractions is equivalent to $\frac{1}{2}$?

$$\frac{1}{3}, \frac{2}{5}, \frac{3}{6}, \frac{4}{9}, \frac{5}{8}$$

2. 5671 x 54 =
3. 873 ÷ 100 =
4. Round 23,456 to the nearest 10.
5. Which two of these numbers are prime?
    31, 14, 87, 27, 68
6. 56,789 – 7678 =
7. 3.41 + _____ = 6.08
8. Write down two numbers with a sum of 9 and a difference of 1.
9. I have £10. I spend £2.70. How much do I have left?
10. What is the value of a + 7 when a = 3?

Maths Activity – Understand thousandths

This week we are learning about decimals. There is a knowledge postcard on the next three slides to use if you need to.

Use the following link to White Rose Maths Home Learning and watch the video for Summer Term - Week 7 - Lesson 2 – Understand thousandths.
https://whiterosemaths.com/homelearning/year-5/

Today's lesson is a consolidation of what we have already covered so see how much you can remember. The video explains the concept in different ways; you can pause the video and complete questions on the sheet or in your homework books, or you may prefer to watch the whole video first before completing the sheet. If you feel you want to just go ahead and complete the sheet, then feel free to do so. You can then check your answers to see how you got on (answers are at the end of the presentation).

Again you should have a go at completing the questions you feel confident to. Remember, don't worry, just try your best.
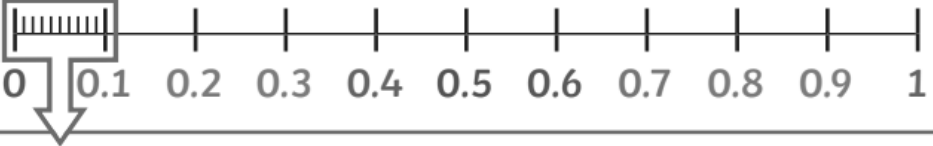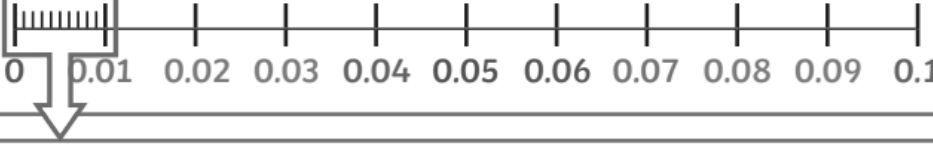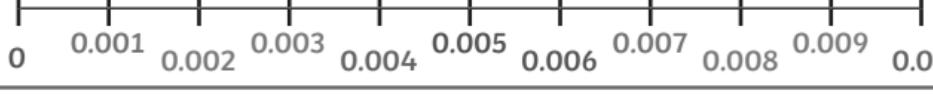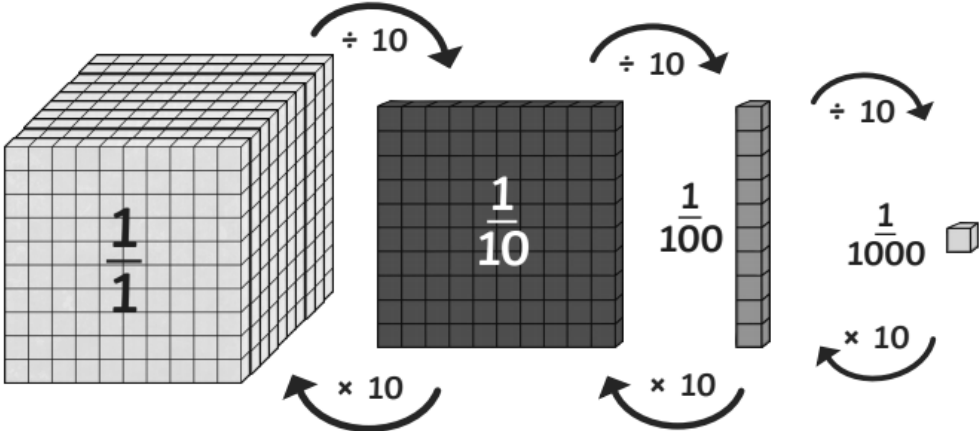
Questions 1 – 3 ☆

Questions 1 – 6 ☆☆

Questions 1 - 8 ☆☆☆

Decimals Revision

Decimals

Key Vocabulary	Tenths, Hundredths and Thousandths
tenths	
hundredths	
decimal tenths	
decimal hundredths	
decimal equivalents	
part-whole model	
rounding	
decimal point	
place value	

$\frac{0}{10}$ $\frac{1}{10}$ $\frac{2}{10}$ $\frac{3}{10}$ $\frac{4}{10}$ $\frac{5}{10}$ $\frac{6}{10}$ $\frac{7}{10}$ $\frac{8}{10}$ $\frac{9}{10}$ $\frac{10}{10}$

0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

$\frac{0}{100}$ $\frac{1}{100}$ $\frac{2}{100}$ $\frac{3}{100}$ $\frac{4}{100}$ $\frac{5}{100}$ $\frac{6}{100}$ $\frac{7}{100}$ $\frac{8}{100}$ $\frac{9}{100}$ $\frac{1}{10}$

0 0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1

$\frac{0}{1000}$ $\frac{1}{1000}$ $\frac{2}{1000}$ $\frac{3}{1000}$ $\frac{4}{1000}$ $\frac{5}{1000}$ $\frac{6}{1000}$ $\frac{7}{1000}$ $\frac{8}{1000}$ $\frac{9}{1000}$ $\frac{1}{100}$

0 0.001 0.002 0.003 0.004 0.005 0.006 0.007 0.008 0.009 0.01

$\frac{1}{1}$ ÷ 10 $\frac{1}{10}$ ÷ 10 $\frac{1}{100}$ ÷ 10 $\frac{1}{1000}$

× 10 × 10 × 10

Decimals Revision

Knowledge Organiser

Order and Compare Numbers with Three Decimal Places

Ones	Tenths	Hundredths	Thousandths
	$\frac{1}{10}$ $\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$ $\frac{1}{1000}$ $\frac{1}{1000}$

0 . 2 1 3

Ones	Tenths	Hundredths	Thousandths
1		$\frac{1}{100}$ $\frac{1}{100}$	$\frac{1}{1000}$ $\frac{1}{1000}$

1 . 0 2 2

Ones	Tenths	Hundredths	Thousandths
1 1	$\frac{1}{10}$		$\frac{1}{1000}$ $\frac{1}{1000}$ $\frac{1}{1000}$
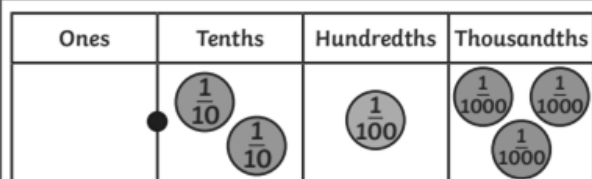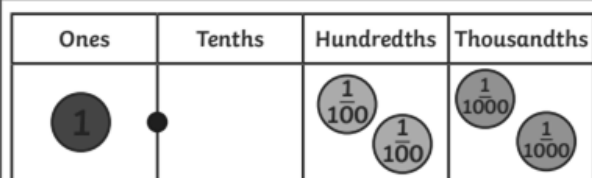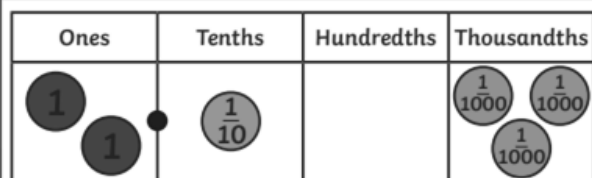
2 . 1 0 3

Decimal Numbers as Fractions

$$0.71 = \frac{71}{100} = \frac{7}{10} + \frac{1}{100}$$

$$0.37 = \frac{37}{100} = \frac{3}{10} + \frac{7}{100}$$

Decimals

Multiplying and Dividing by 10, 100 and 1000

Tens	Ones	Tenths	Hundredths	Thousandths
3	8			
	3	8		
3	8			

÷ 10   × 10

Tens	Ones	Tenths	Hundredths	Thousandths
3	8			
	0	3	8	
3	8			

÷ 100   × 100

Tens	Ones	Tenths	Hundredths	Thousandths
3	8			
	0	0	3	8
3	8			

÷ 1000   × 1000
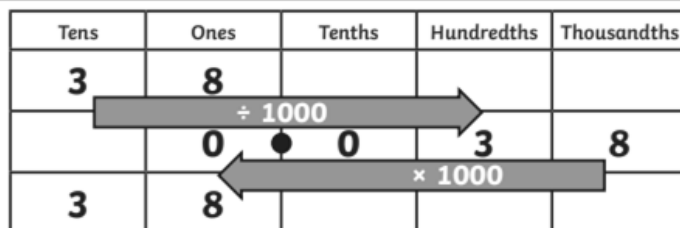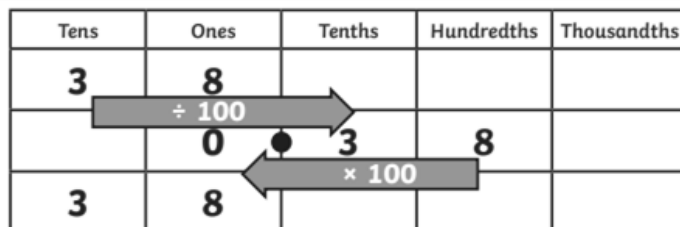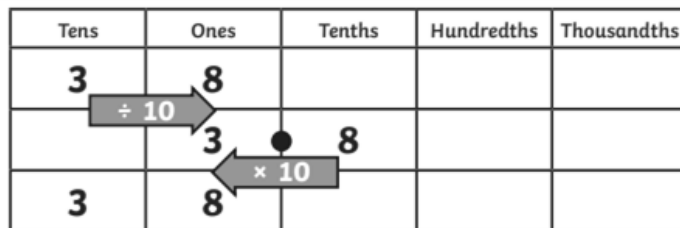
Adding and Subtracting Decimals

0.8 + 0.001 = 0.801
1.031 - 0.23 = 0.801
0.4005 + 0.4005 = 0.801

Decimals Revision

## Rounding Decimals

1 ← 1.1 1.2 1.3 1.4 | 1.5 1.6 1.7 1.8 1.9 → 2
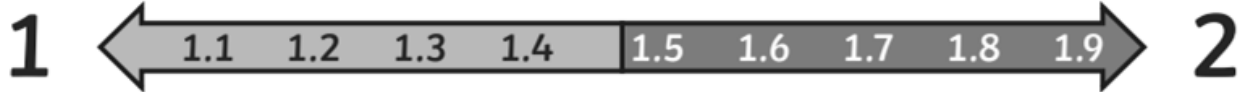
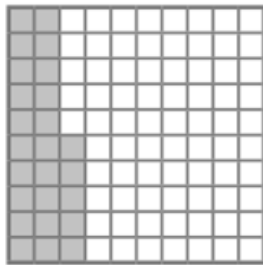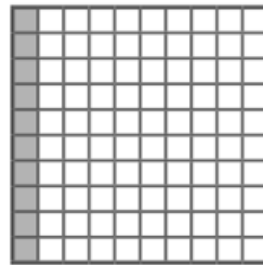| If the tenths digit is 1, 2, 3 or 4, we round down to the nearest whole number. | If the tenths digit is 5, 6, 7, 8 or 9, we round up to the nearest whole number. |

1.1 ← 1.11 1.12 1.13 1.14 | 1.15 1.16 1.17 1.18 1.19 → 1.2

| If the hundredths digit is 1, 2, 3 or 4, we round down to the nearest tenth. | If the hundredths digit is 5, 6, 7, 8 or 9, we round up to the nearest tenth. |

Percentage and Decimal Equivalents
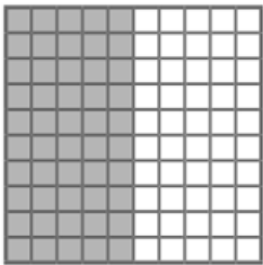
$50\% = \frac{50}{100} = \frac{1}{2} = 0.5$ $25\% = \frac{25}{100} = \frac{1}{4} = 0.25$ $10\% = \frac{10}{100} = \frac{1}{10} = 0.1$ $40\% = \frac{40}{100} = \frac{2}{5} = 0.4$
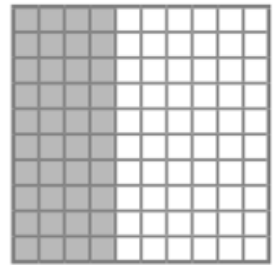
Crossing the Whole

0.82 + 0.63 = 1.45
2.531 - 0.6 = 1.931
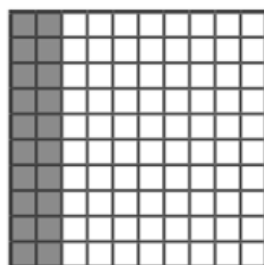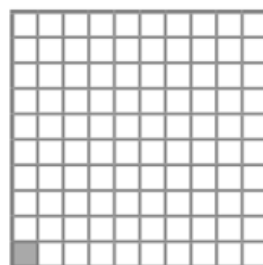
$20\% = \frac{20}{100} = \frac{1}{5} = 0.2$ $1\% = \frac{1}{100} = 0.01$ $70\% = \frac{70}{100} = \frac{7}{10} = 0.7$
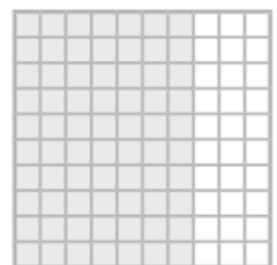
Understand thousandths

1 Tommy is using base 10 to represent decimals.
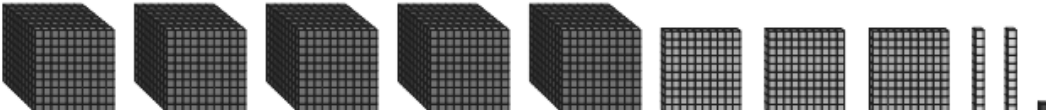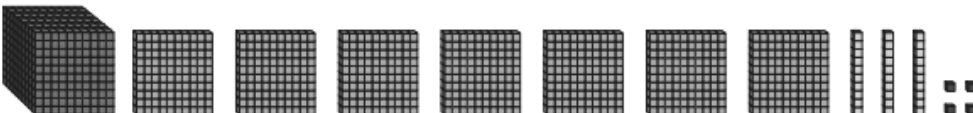
He uses ▦ to represent 1 whole.

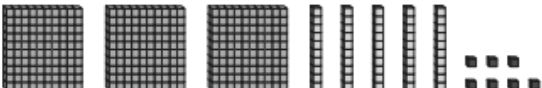He uses ▦ to represent $\frac{1}{10}$ or 0.1

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)

c)

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 + ⬚

1.352 = 1 + ⬚ + ⬚ + ⬚

2.003 = _____

3 Here is a thousand square.

Part of the square has been coloured.
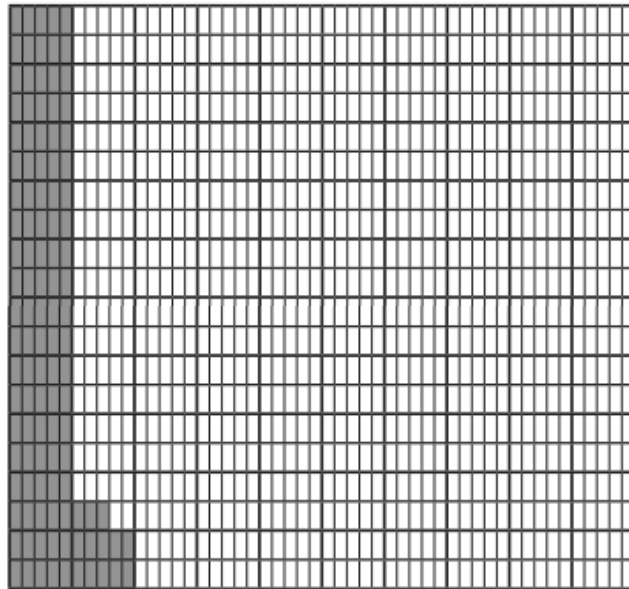
a) Why do you think it is called a thousand square?

_____

b) What fraction of the square has been coloured? $\dfrac{}{1000}$

c) Write the fraction as a decimal.   ⬚

4 What fraction of each square has been shaded?

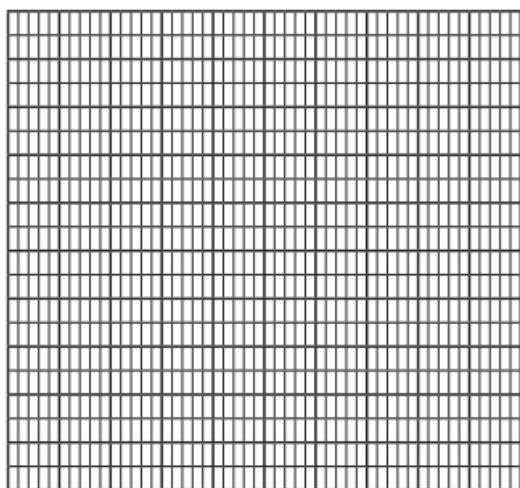Write each number as a fraction and as a decimal.

a)
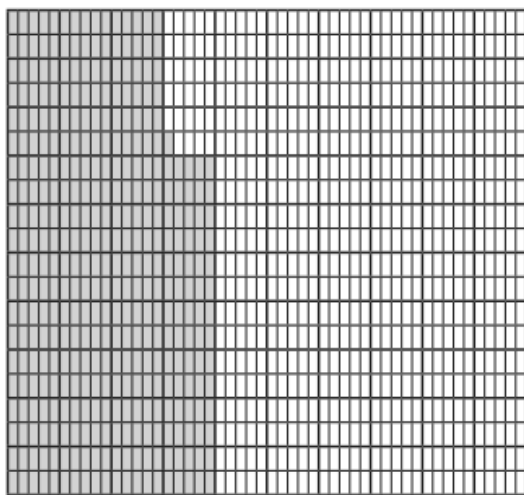
fraction = [ ]

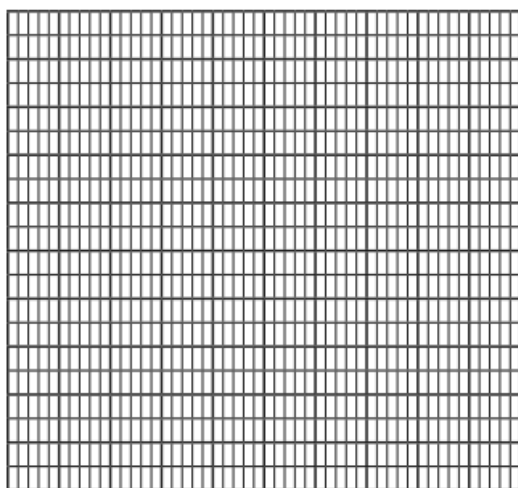decimal = [ ]

b)
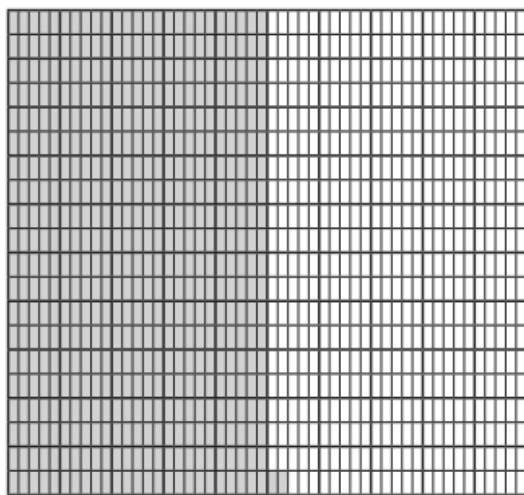
fraction = [ ]

decimal = [ ]

5 Colour the grids to represent the fraction and decimal.

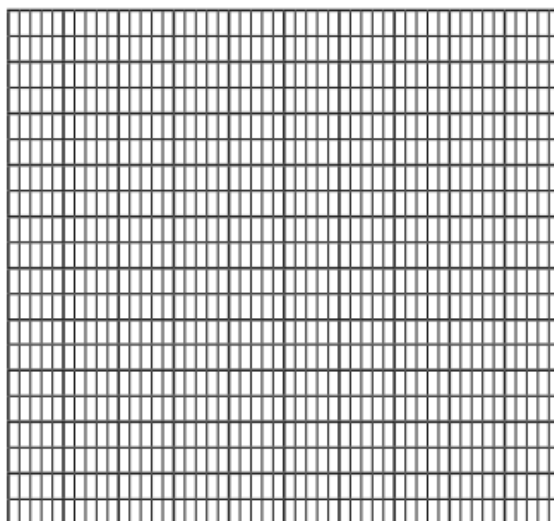a) $\dfrac{73}{1000}$

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
① ① ① ①	0.1 0.1	0.01 0.01 0.01 0.01 0.01 0.01 0.01	0.001 0.001 0.001 0.001 0.001 0.001

b)

Ones	Tenths	Hundredths	Thousandths
	0.1 0.1 0.1 0.1 0.1		0.001 0.001 0.001 0.001

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Household Items Treasure Hunt

Look around your house to find items that solve the clues. Draw the items in the boxes. Will everyone in your house find the same things? Can you find something different? Can you find and draw...?

something yellow	something square	something that shows the number 5

something that is a sphere	something that is blue	something that is empty

something that is taller than you	something that is a cube	something that shows the number 10

two things that are cylinders	three things that are the same	four things that are smaller than your hand

twinkl

ANSWERS

1. Which of these fractions is equivalent to $\frac{1}{2}$?

    $\frac{1}{3}$, $\frac{2}{5}$, $\boxed{\frac{3}{6}}$, $\frac{4}{9}$, $\frac{5}{8}$

2. 5671 x 54 = 306,234
3. 873 ÷ 100 = 8.73
4. Round 23,456 to the nearest 10 = 23,460
5. Which two of these numbers are prime?

    (31) 14, (87), 27, 68
6. 56,789 – 7678 = 49,111
7. 3.41 + 2.67 = 6.08
8. Write down two numbers with a sum of 9 and a difference of 1 = 4 and 5
9. I have £10. I spend £2.70. How much do I have left? £7.30
10. What is the value of a + 7 when a = 3? 10

ANSWERS Understand Thousandths

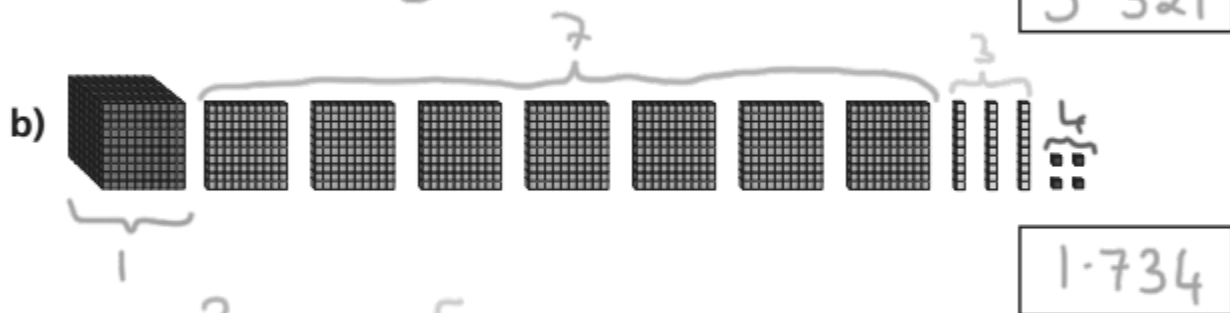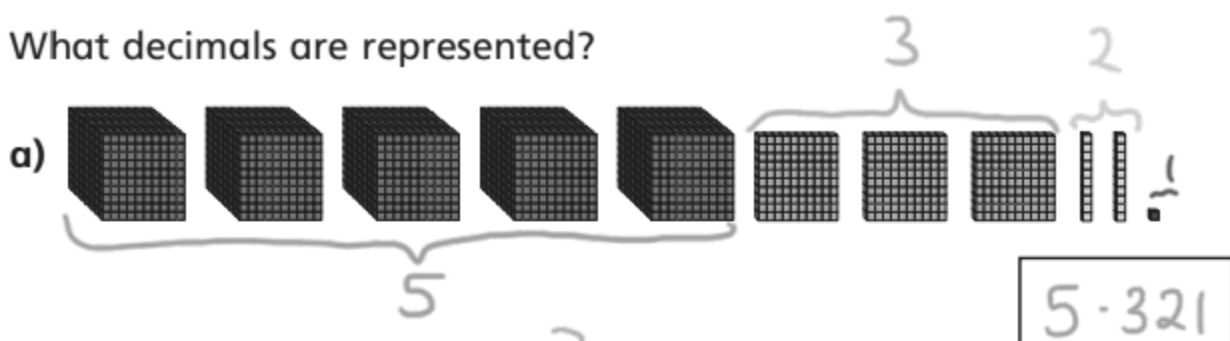**1** Tommy is using base 10 to represent decimals.

He uses [cube] to represent 1 whole.

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

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

He uses ▪ to represent $\frac{1}{1000}$ or 0.01

What decimals are represented?

a) 3 2

5

$\boxed{5 \cdot 321}$

b) 7 3

1

4

$\boxed{1 \cdot 734}$

c) 3 5 7

$\boxed{0 \cdot 357}$

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 + $\boxed{0.002}$

1.352 = 1 + $\boxed{0.3}$ + $\boxed{0.05}$ + $\boxed{0.002}$

2.003 = ___2 + 0.003___

3 Here is a thousand square.

Part of the square has been coloured.

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

___It is split into one thousand equal parts.___

b) What fraction of the square has been coloured? $\dfrac{113}{1000}$

c) Write the fraction as a decimal. $\boxed{0.113}$

15

4 What fraction of each square has been shaded?
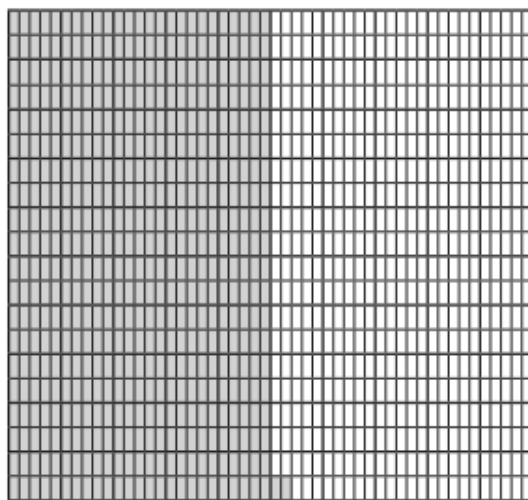
Write each number as a fraction and as a decimal.

a)
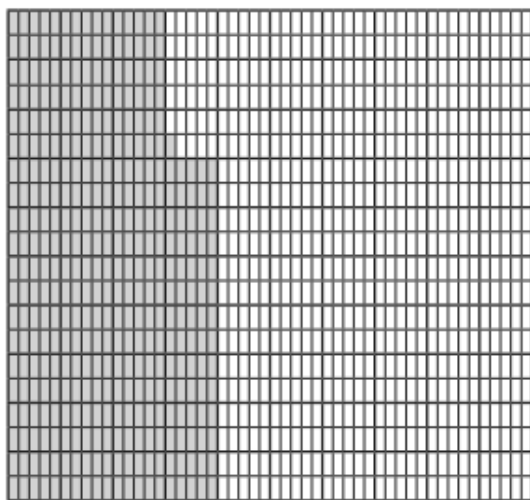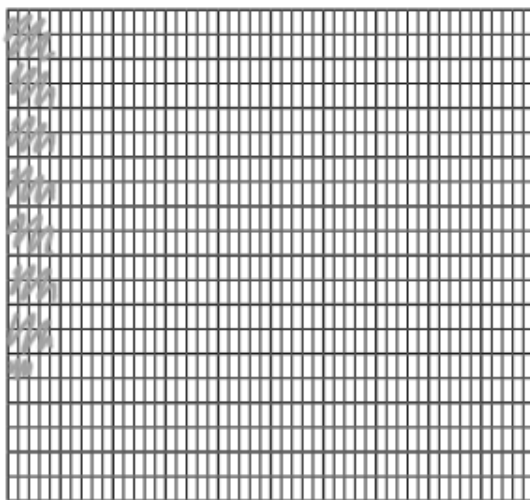

fraction = $\dfrac{371}{1000}$

decimal = 0.371

b)

fraction = $\dfrac{502}{1000}$
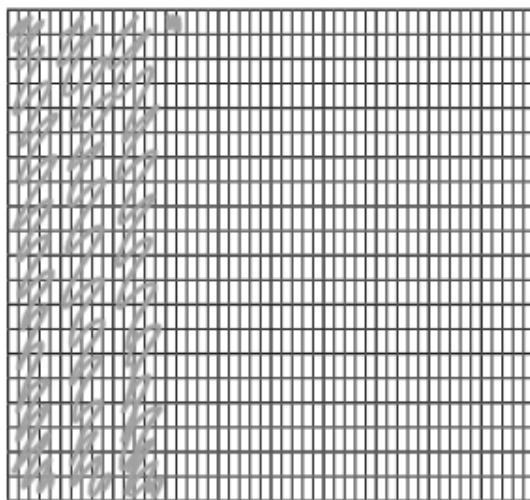
decimal = 0.502

5 Colour the grids to represent the fraction and decimal.
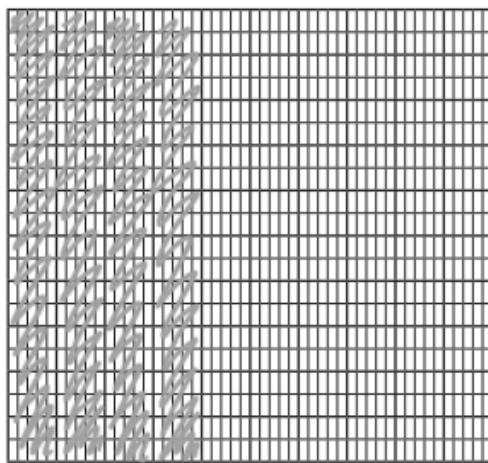
a) $\dfrac{73}{1000}$

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

400 out of 1,000
equal parts = $\frac{400}{1000}$

4 out of 10 equal
columns = $\frac{4}{10}$ = 0.4

8 Write the numbers represented by the place value charts.

a)

Ones		Tenths	Hundredths	Thousandths
① ① ① ①	•	0.1 0.1	0.01 0.01 0.01 0.01 0.01 0.01 0.01	0.001 0.001 0.001 0.001 0.001 0.001

4·276

b)

Ones		Tenths	Hundredths	Thousandths
	•	0.1 0.1 0.1 0.1 0.1		0.001 0.001 0.001 0.001

0·504