

Maths Homework (21.01.22)

This week we have been learning how to change fractions to decimals and also how they relate to percentages.

Please complete the following pages in your Power Maths book 6B:

- Page 12 Q1 and Q2
- Page 13 Q3 and Q5 (you can complete Q4, if you wish)
- Page 15 Q1 and Q2
- Page 16 Q3 and Q4

You may want to use the pages below to help you, if you don't have your book at hand.

Use the pre-learning videos from last week too and the ones in the Year 6 video channel, if you are a little stuck.

Unit 7: Decimals, Lesson 3

Decimals as fractions

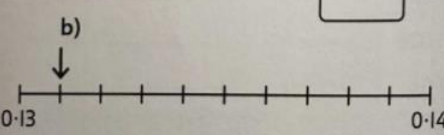
1 Write each decimal as a fraction.

a)



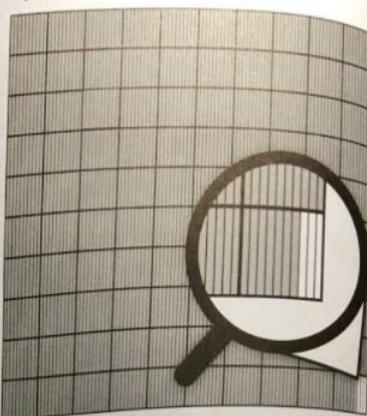
0.007 is equivalent to $\frac{\quad}{\quad}$

b)



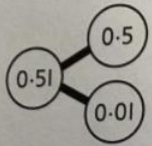
$\frac{\quad}{\quad}$ is equivalent to $\frac{\quad}{\quad}$

c)



0.997 is equivalent to $\frac{\quad}{\quad}$

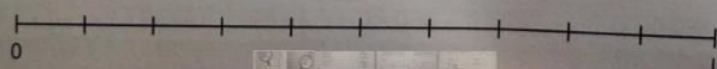
d)



$\frac{\quad}{\quad}$ is equivalent to $\frac{\quad}{\quad}$

2 Convert these fractions to decimals then mark their position on the number line.

$\frac{900}{1,000}$	$\frac{15}{100}$	$\frac{3}{10}$	$\frac{550}{1,000}$	$\frac{50}{1,000}$
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3 Match each decimal to the equivalent fraction.

0.3

0.03

0.33

0.303

3.3

0.003

$\frac{33}{10}$

$\frac{303}{1,000}$

$\frac{30}{1,000}$

$\frac{33}{100}$

$\frac{3}{1,000}$

$\frac{300}{1,000}$

4 Write each decimal as a fraction, then simplify as far as you can.

a) 0.04 _____

b) 0.05 _____

c) 0.004 _____

d) 0.005 _____

5 a) Which of these fractions is equivalent to 1.823? Circle your answer.



$1\frac{823}{1,000}$

$1\frac{823}{100}$

$\frac{8}{23}$

$\frac{1,000}{823}$

b) Which of these fractions is equivalent to 0.85? Circle your answer.

$\frac{85}{10}$

$\frac{17}{10}$

$\frac{8}{5}$

$\frac{17}{20}$

Fractions as decimals 1

1 Write each fraction on a place value grid.

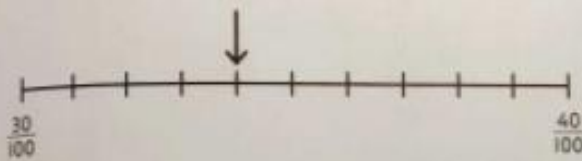
a) $\frac{3}{100}$

O	.	Tth	Hth	Thth
	.			

c) $\frac{3}{1,000}$

O	.	Tth	Hth	Thth
	.			

b)



d)

$\frac{345}{1,000}$		
$\frac{3}{10}$	$\frac{4}{100}$	$\frac{5}{1,000}$

O	.	Tth	Hth	Thth
	.			

O	.	Tth	Hth	Thth
	.			

2 a) Which decimal is equivalent to $\frac{77}{10}$? Circle your answer.

0.77

77.10

7.7

77.7

b) Which decimal is equivalent to $\frac{370}{100}$? Circle your answer.

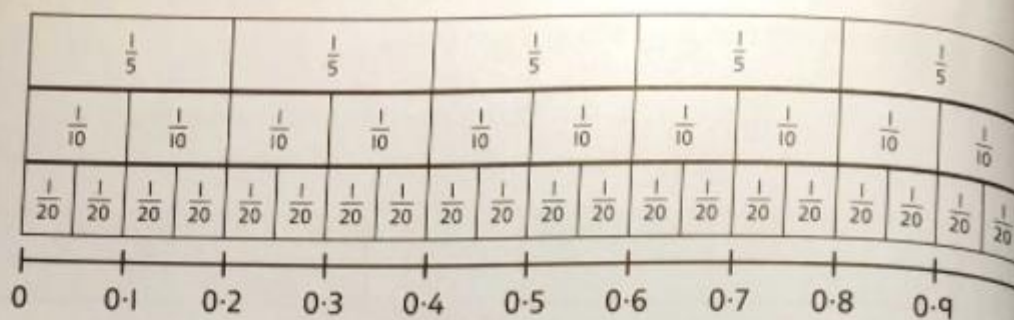
0.37

0.037

0.307

3.7

- 3 Use the fraction wall to help convert these fractions to decimals.



a) $\frac{2}{5} =$

d) $\frac{4}{5} =$

b) $\frac{8}{20} =$

e) $\frac{11}{20} =$

c) $\frac{17}{20} =$

- 4 Use equivalent fractions to convert these fractions to decimals.

a) $\frac{1}{50} = \frac{\boxed{}}{100} = 0.\boxed{}$

d) $\frac{3}{50} = \frac{\boxed{}}{100} = \boxed{}$

b) $\frac{3}{200} = \frac{\boxed{}}{1,000} = \boxed{}$

e) $\frac{99}{500} = \frac{\boxed{}}{\boxed{}} = \boxed{}$

c) $\frac{99}{250} = \frac{\boxed{}}{\boxed{}} = \boxed{}$

- 5 Write the decimals that the arrows are pointing to.

