Tuesday Maths Answers

Week 12

1 Tommy is using base 10 to represent decimals.
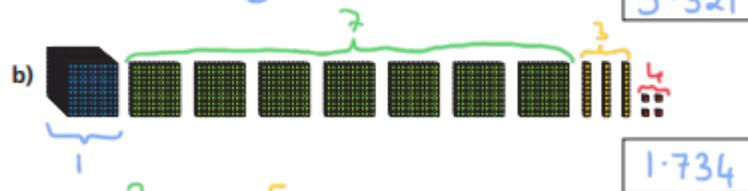
He uses [cube] to represent 1 whole.

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

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

He uses [small cube] to represent $\frac{1}{1000}$ or 0.01

What decimals are represented?

a) $\underbrace{[5 \text{ cubes}]}_{5} \underbrace{[3 \text{ flats}]}_{3} \underbrace{[2 \text{ rods}]}_{2} \overset{1}{.}$ **5·321**

b) $\underbrace{[1 \text{ cube}]}_{1} \underbrace{[7 \text{ flats}]}_{7} \overset{3}{} \overset{4}{:}$ **1·734**

c) $\overset{3}{[\text{flats}]} \overset{5}{[\text{rods}]} \overset{7}{::}$ **0·357**

2 a) Represent each number using base 10

0.512   1.352   2.003

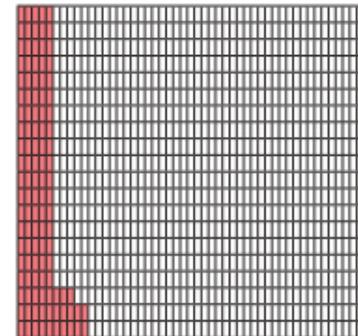b) Use your representations to help you complete the statements.

0.512 = 0.5 + 0.01 + [**0·002**]

1.352 = 1 + [**0·3**] + [**0·05**] + [**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? $\frac{113}{1000}$
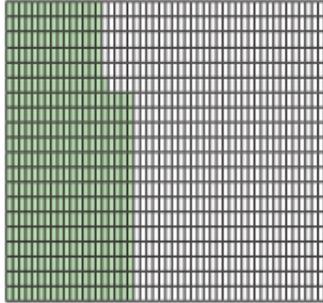
c) Write the fraction as a decimal.   **0·113**

Tuesday Maths Answers

Week 12

4 What fraction of each square has been shaded?

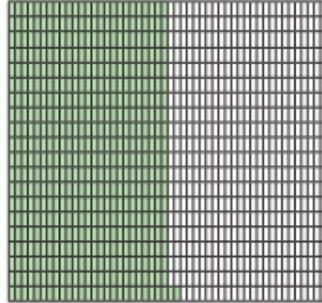Write each number as a fraction and as a decimal.
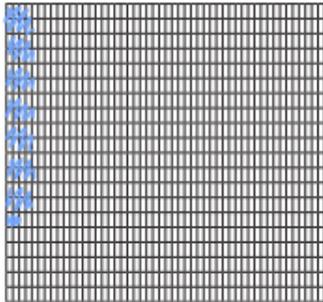
a)

b)

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

fraction = $\frac{502}{1000}$
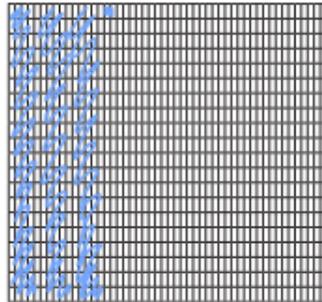
decimal = 0·371

decimal = 0·502

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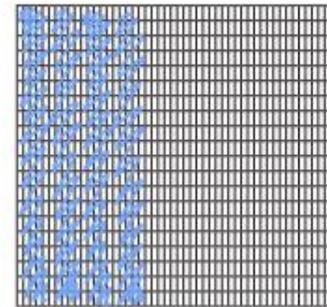
a) $\frac{73}{1000}$

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

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