

Monday 8th February

Decimals up to 2 Decimal Places.

Watch the video link and answer the following questions.

<https://vimeo.com/485432781>

Decimals up to 2 d.p.

1 What number is represented on the place value chart?

Ones	Tenths	Hundredths
	0.1 0.1	0.01 0.01 0.01
0	2	3

Complete the sentences.

There are ones, tenths and hundredths.

The number is .

2 Represent these numbers on a place value chart.

Complete the sentences.

a) 0.56

There are ones, tenths and hundredths.

b) 0.08

There are ones, tenths and hundredths.

c) 1.48

There is one, tenths and hundredths.

d) 2.07

There are ones, tenths and hundredths.

3 Mo is thinking about tenths and hundredths.

In the number 2.49
the digit 4 represents
4 tenths or 0.4



What is the value of the digit 4 in each of these numbers?

a) 14.8 _____ d) 42.03 _____

b) 13.74 _____ e) 106.48 _____

c) 8.04 _____ f) 176.4 _____

4 a) Circle the number that has 5 in the tenths position.

53 5.3 0.53 0.35

b) Write three numbers that have 3 in the hundredths position.

5 Complete the calculations.

a) $0.64 = 0.6 + \square$

c) $0.3 + 0.05 = \square$

b) $0.53 = 0.5 + \square$

d) $0.06 + 0.8 = \square$



The Answers Are On The
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Decimals up to 2 d.p.

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0	2	3

Complete the sentences.

There are ones, tenths and hundredths.

The number is .

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- c) 1.48

There are ones, tenths and hundredths.

- d) 2.07

There are ones, tenths and hundredths.

- 3 Mo is thinking about tenths and hundredths.

In the number 2.49
the digit 4 represents
4 tenths or 0.4



What is the value of the digit 4 in each of these numbers?

- a) 14.8 4 ones d) 42.03 4 tens
 b) 13.74 4 hundredths e) 106.48 4 tenths
 c) 8.04 4 hundredths f) 176.4 4 tenths

- 4 a) Circle the number that has 5 in the tenths position.

53 5.3 0.53 0.35

- b) Write three numbers that have 3 in the hundredths position.


eg. 0.03 4.53 72.03

- 5 Complete the calculations.

- a) $0.64 = 0.6 +$ c) $0.3 + 0.05 =$
 b) $0.53 = 0.5 +$ d) $0.06 + 0.8 =$

6 Rosie is finding different ways to partition 0.73


0.73 = 0.7 + 0.03
or 0.3 + 0.43



Ones	Tenths	Hundredths
0	7	3

In what other ways can 0.73 be partitioned?
List as many ways as you can below.

7 Alex is thinking of a number.



My number has 3 digits,
is greater than 1 but less than 2
and has 3 tenths.

- a) What number could Alex be thinking of?
Talk about it with a partner.
- b) Write all the possible numbers Alex could be thinking of.

c) Write another clue that would mean Alex's number is 1.34

8 Match the words to the numerals.

5 ones, 6 tenths and 5 hundredths	0.56
5 tenths and 6 hundredths	60.05
5 ones, 5 tenths and 6 hundredths	5.56
6 tens and 5 hundredths	5.65

9 Annie has three digit cards.

0	2	5
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Are the statements true or false? Explain your answers.

a) The largest number Annie can make is 5.02

b) The smallest number Annie can make is 0.25

c) Annie can make six different numbers.



The Answers Are On The
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- 6 Rosie is finding different ways to partition 0.73

$0.73 = 0.7 + 0.03$
or $0.3 + 0.43$



Ones	Tenths	Hundredths
0	7	3

In what other ways can 0.73 be partitioned?

List as many ways as you can below.

$0.1 + 0.63$ $0.5 + 0.23$
 $0.2 + 0.53$ $0.6 + 0.13$
 $0.4 + 0.33$

- 7 Alex is thinking of a number.



My number has 3 digits,
is greater than 1 but less than
2 and has 3 tenths.

- a) What number could Alex be thinking of?
Talk about it with a partner.
- b) Write all the possible numbers Alex could be thinking of.

$1.30, 1.31, 1.32, 1.33, 1.34, 1.35, 1.36, 1.37,$
 $1.38, 1.39$

- c) Write another clue that would mean Alex's number is 1.34

It has 4 hundredths.

- 8 Match the words to the numerals.

5 ones, 6 tenths and 5 hundredths	0.56
5 tenths and 6 hundredths	60.05
5 ones, 5 tenths and 6 hundredths	5.56
6 tens and 5 hundredths	5.65

- 9 Annie has three digit cards.



Are the statements true or false? Explain your answers.

- a) The largest number Annie can make is 5.02

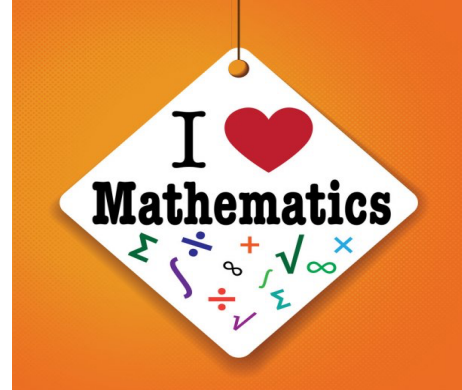
False $5.20 > 5.02$

- b) The smallest number Annie can make is 0.25

True

- c) Annie can make six different numbers.

$0.25, 0.52, 2.05, 2.50, 5.02, 5.20$
True



Tuesday 9th February

Understand Thousandths

Watch the video link and answer the following questions

<https://vimeo.com/485550430>

Understand thousandths



1 Tommy is using base 10 to represent decimals.

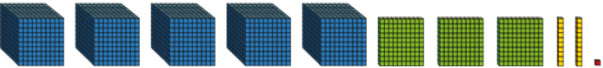
He uses  to represent 1 whole.

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.

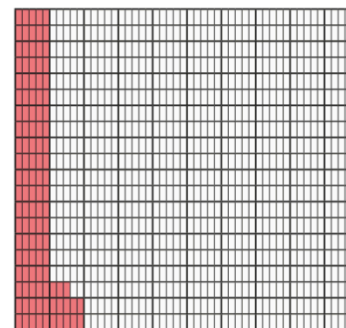
$$0.512 = 0.5 + 0.01 + \boxed{}$$

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

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

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?

$\frac{\boxed{}}{1000}$

c) Write the fraction as a decimal.

The Answers Are On The
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no peeking

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Understand thousandths

1 Tommy is using base 10 to represent decimals.

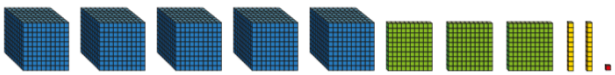
He uses  to represent 1 whole.

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

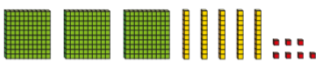
He uses  to represent $\frac{1}{100}$ or 0.01

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

What decimals are represented?

a)  5.321

b)  1.734

c)  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.

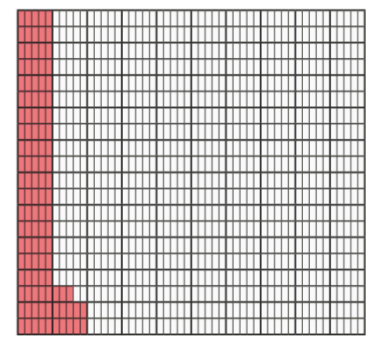
$0.512 = 0.5 + 0.01 +$ 0.002

$1.352 = 1 +$ 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's split into a thousand parts.

b) What fraction of the square has been coloured?

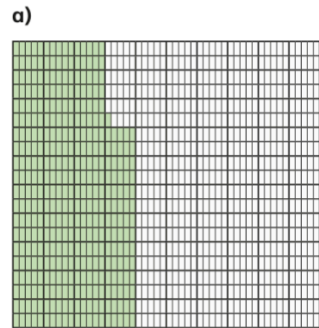
$\frac{113}{1000}$

c) Write the fraction as a decimal.

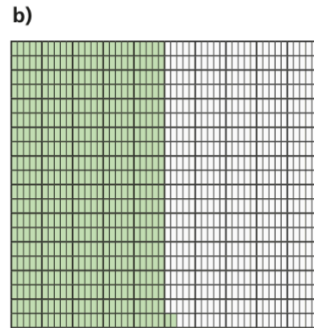
0.113

4 What fraction of each square has been shaded?

Write each number as a fraction and as a decimal.



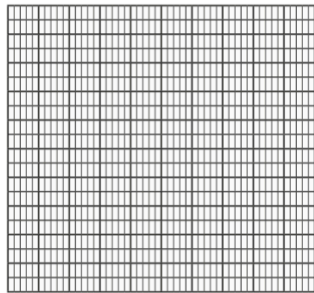
fraction =
 decimal =



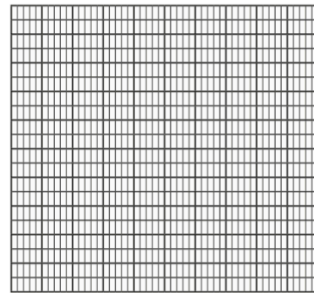
fraction =
 decimal =

5 Colour the grids to represent the fraction and decimal.

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



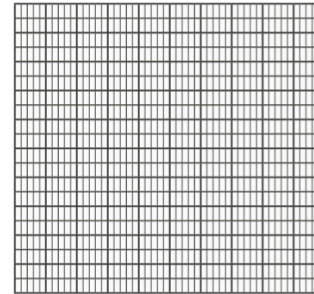
b) 0.302



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
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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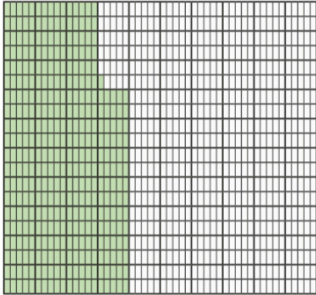
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4 What fraction of each square has been shaded?

Write each number as a fraction and as a decimal.

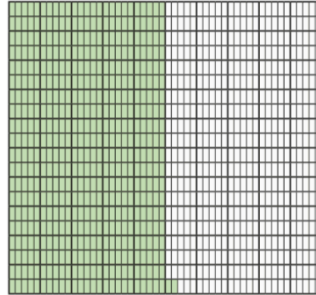
a)



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

decimal = 0.371

b)

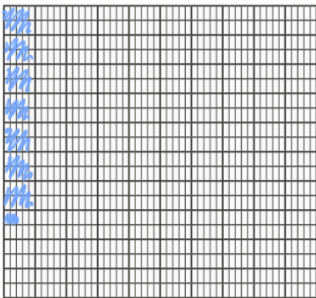


fraction = $\frac{502}{1000}$

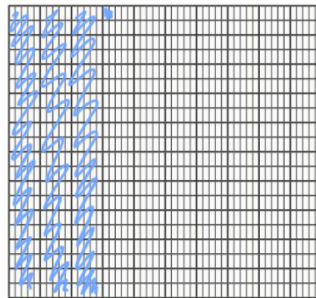
decimal = 0.502

5 Colour the grids to represent the fraction and decimal.

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



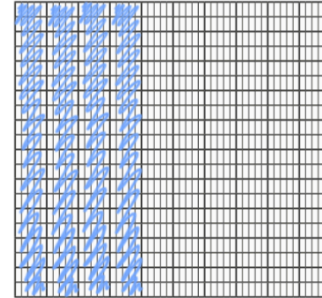
b) 0.302



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- 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

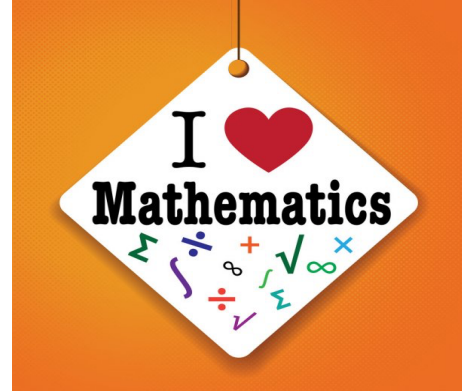
4.276

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





Wednesday 10th February

Three Decimal Places

Watch the video link and answer the following questions

<https://vimeo.com/487196408>

Three decimal places



1 Use place value counters to make the numbers.
Draw your answers.

a) 1.343

T	O	Tth	Hth	Thth

b) 16.052

T	O	Tth	Hth	Thth

c) 7.001

T	O	Tth	Hth	Thth

d) 70.01

T	O	Tth	Hth	Thth

2 Complete the sentences.

O	Tth	Hth	Thth
●●●	●●	●●●	●●●
●	●	●●	●●●

There are ones.

There are tenths.

There are hundredths.

There are thousandths.

The number in digits is

3 Write the value of the 3 in each number.

a) 3.65 _____

b) 0.093 _____

c) 18.31 _____

d) 72.439 _____

e) 32.701 _____

f) 19.03 _____

The Answers Are On The
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Three decimal places



1 Use place value counters to make the numbers.

Draw your answers.

a) 1.343

T	O	Tth	Hth	Thth
	1	3	4	3

b) 16.052

T	O	Tth	Hth	Thth
1	0		5	2

c) 7.001

T	O	Tth	Hth	Thth
	0			1

d) 70.01

T	O	Tth	Hth	Thth
7	0		1	

2 Complete the sentences.

O	Tth	Hth	Thth
3	2	4	5

There are **3** ones.

There are **2** tenths.

There are **4** hundredths.

There are **5** thousandths.

The number in digits is **3.245**

3 Write the value of the 3 in each number.

a) 3.65 3 ones

b) 0.093 3 thousandths

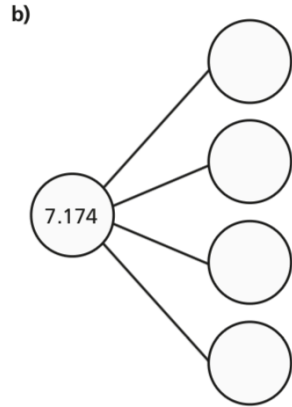
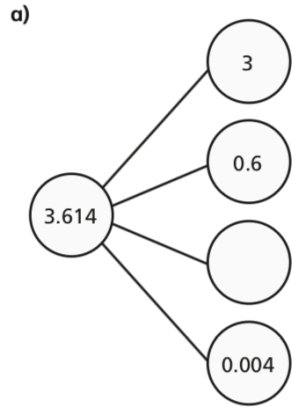
c) 18.31 3 tenths

d) 72.439 3 hundredths

e) 32.701 3 tens

f) 19.03 3 hundredths

4 Complete the part-whole models.



5 Complete the number sentences.

a) $17.134 = 10 + 7 + 0.1 + \boxed{} + 0.004$

b) $94.077 = 90 + 4 + 0.07 + \boxed{}$

c) $\boxed{} = 30 + 4 + 0.07 + 0.009$

6 Complete the number sentences.

$1.456 = 1 + 0.4 + \boxed{} + 0.006$

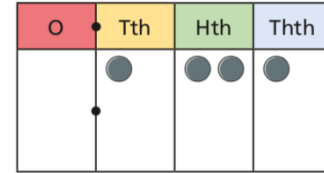
$1.456 = 1 + 0.3 + \boxed{} + 0.006$

$1.456 = 1 + 0.2 + \boxed{} + 0.006$

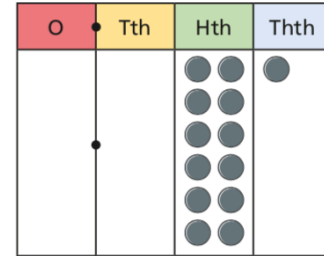
$1.456 = 1 + \boxed{} + 0.006$

7 Mo and Annie have represented 0.121 on their place value charts.

Mo's chart



Annie's chart



Mo

Only my grid shows 0.121

Both our grids show 0.121



Annie

Who do you agree with? _____

Explain why.

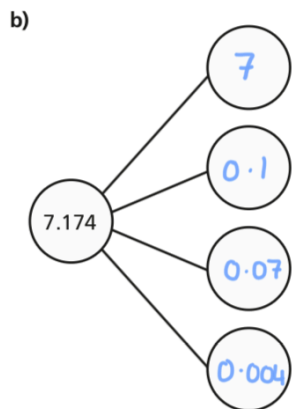
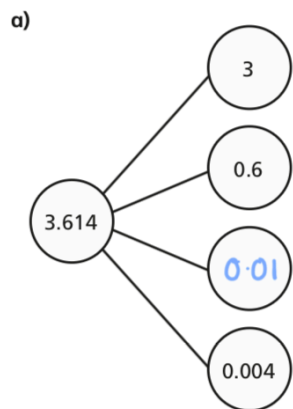
The Answers Are On The
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4 Complete the part-whole models.



5 Complete the number sentences.

a) $17.134 = 10 + 7 + 0.1 + \boxed{0.03} + 0.004$

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6 Complete the number sentences.

$1.456 = 1 + 0.4 + \boxed{0.05} + 0.006$

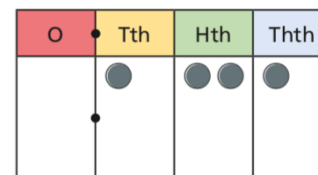
$1.456 = 1 + 0.3 + \boxed{0.15} + 0.006$

$1.456 = 1 + 0.2 + \boxed{0.25} + 0.006$

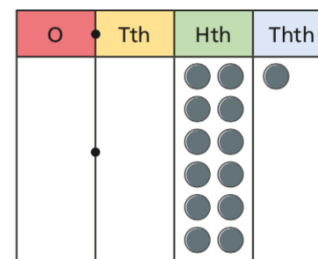
$1.456 = 1 + \boxed{0.45} + 0.006$

7 Mo and Annie have represented 0.121 on their place value charts.

Mo's chart



Annie's chart



Mo

Only my grid shows 0.121

Both our grids show 0.121



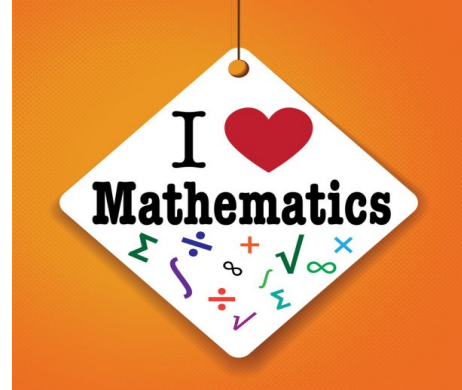
Annie

Who do you agree with? Annie

Explain why.

Annie could exchange 10 hundredths for one tenth then their grids would be the same.





Thursday 11th February

Multiply by 10, 100 and 1000.

Watch the video link and answer the following questions

<https://vimeo.com/487198038>

The Answers Are On The
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Multiply by 10, 100 and 1,000



1 Complete the calculations and sentences.

Use place value charts to help you.

Th	H	T	O	Tth	Hth
			● ● ● ● ● ●	● ● ● ● ● ●	

a) $2.3 \times 10 =$

When the number is multiplied by 10 the counters move place to the left.

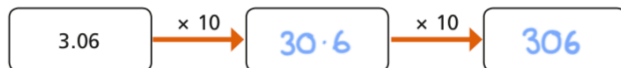
b) $2.3 \times 100 =$

When the number is multiplied by 100 the counters move places to the left.

c) $2.3 \times 1,000 =$

When the number is multiplied by 1,000 the counters move places to the left.

2 Complete the diagram.



3 a) Draw counters on the place value charts to represent each calculation.

4.4×1

Th	H	T	O	Tth	Hth
			● ● ● ● ● ●	● ● ● ● ● ●	

4.4×10

Th	H	T	O	Tth	Hth
			● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		

4.4×100

Th	H	T	O	Tth	Hth
			● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		

$4.4 \times 1,000$

Th	H	T	O	Tth	Hth
			● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		

b) Complete the calculations.

$4.4 \times 1 =$

$4.4 \times 10 =$

$4.4 \times 100 =$

$4.4 \times 1,000 =$

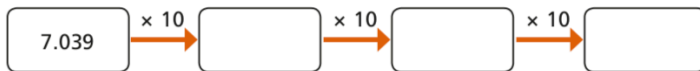
What do you notice?



4 Complete the calculations.

- a) $13.44 \times 10 =$ d) $4.4 \times$ $= 4,400$
- b) $41.4 \times 100 =$ e) $= 1.03 \times 100$
- c) $0.415 \times 1,000 =$ f) $30.44 =$ $\times 10$

5 Complete the diagrams.



What do you notice? Why does this happen?

6 Write $>$, $<$ or $=$ to compare the number sentences.

$1.4 \times 10 \times 10 \times 10$ $1.4 \times 1,000$

$1.4 \times 10 \times 100$ $1.4 \times 1,000$

$1.4 \times 10 \times 10$ $1.4 \times 1,000$

$1.4 \times 10 \times 2$ 1.4×100

7 Kim is calculating 14.3×200

She writes this as her answer.

$$14.3 \times 200 = 28.600$$

Explain Kim's mistake.

8 Use the cards to complete the calculation.

You can use each card more than once.



0.002 $= 2,000$

How many ways is it possible to complete this calculation?

Talk about it with a partner.



The Answers Are On The
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4 Complete the calculations.

a) $13.44 \times 10 = 134.4$

d) $4.4 \times 1,000 = 4,400$

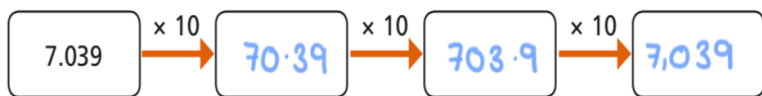
b) $41.4 \times 100 = 4,140$

e) $103 = 1.03 \times 100$

c) $0.415 \times 1,000 = 415$

f) $30.44 = 3.044 \times 10$

5 Complete the diagrams.



What do you notice? Why does this happen?

They all give the same final answer because
 $10 \times 10 \times 10 = 100 \times 10 = 1,000$



6 Write $>$, $<$ or $=$ to compare the number sentences.

$1.4 \times 10 \times 10 \times 10 \quad (=) \quad 1.4 \times 1,000$

$1.4 \times 10 \times 100 \quad (=) \quad 1.4 \times 1,000$

$1.4 \times 10 \times 10 \quad (<) \quad 1.4 \times 1,000$

$1.4 \times 10 \times 2 \quad (<) \quad 1.4 \times 100$

7 Kim is calculating 14.3×200

She writes this as her answer.

$$14.3 \times 200 = 28.600$$

Explain Kim's mistake.

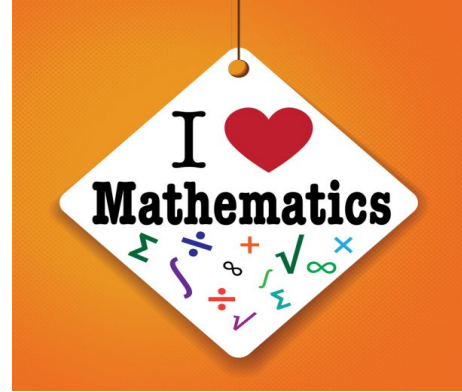
She has multiplied by 2 and added two
zeros. She hasn't considered the place value
of each digit. $14.3 \times 200 = 2,860$

8 Use the cards to complete the calculation.

You can use each card more than once.



E.g. $0.002 \quad \boxed{\times 10} \quad \boxed{\times 100} \quad \boxed{\times 1,000} = 2,000$



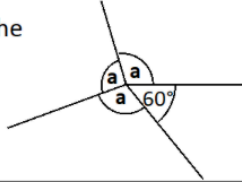
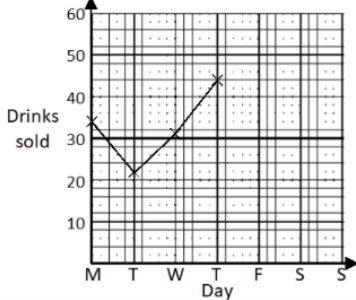
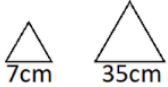
Friday 13th February

Skills Check

Name: _____

Date: _____

Class/Group: _____

A: Place Value, Add, Subtract, Multiply and Divide	B: Fractions, Ratio, Proportion and Algebra	C: Measure and Problem Solving								
1. Write one million, three hundred and eleven thousand, and six in digits. 6:1	11. Which is the largest fraction? $\frac{2}{7}$, $\frac{3}{14}$ or $\frac{7}{28}$ 6:7	21. Name the shape: "I have 4 sides equal in length but no right angles". 6:24								
2. What is the value of the 7 in this number? 1,383,721 6:1	12. $\frac{3}{4} + \frac{2}{5} =$ 6:8	22. The diameter of a circle is 18cm. How long is the radius ? 6:25								
3. Round 8,523,912 to the nearest hundred thousand . 6:1	13. Simplify your answer. $\frac{2}{7} \times \frac{5}{6} =$ 6:9	23. Calculate the value of a .  6:26								
4. To a number I add 7 then subtract 9 and get -3. What did I start with? 6:2	14. 3.121×10 6:10									
5. $3,174 \times 63$ 6:3	15. 5.24×4 6:11	24. Complete the line graph for drinks sold by a market stall: <table border="1" style="margin: 10px auto;"><thead><tr><th>Day</th><th>Fri</th><th>Sat</th><th>Sun</th></tr></thead><tbody><tr><td>Drinks sold</td><td>52</td><td>60</td><td>36</td></tr></tbody></table>  6:29	Day	Fri	Sat	Sun	Drinks sold	52	60	36
Day	Fri		Sat	Sun						
Drinks sold	52	60	36							
6. Give your answer to the nearest whole number : $1,602 \div 13$ 6:3	16. Write this decimal as a fraction and a percentage . 6:12									
7. Which is a common multiple of 16 and 24? 16 24 48 54 60 6:4	17. Find 30% of 90. 6:13									
8. Circle all the prime numbers : 71 73 75 77 6:4	18. What is the scale factor ?  6:14									
9. $48 \div 8 + 6 \times 7$ 6:5	19. How long does a 5kg chicken take? 6:15									
10. How much cheaper is a meal? 6:6	20. What is the rule for this sequence? 6:16									
Burger £2.49 Fries £1.19 Meal £3.20	5, 11, 17, 23, 29, ...	25. Find the mean of these numbers: 10 7 4 12 9 18								
Total (A)	Total (B)	Total (C)								
Test Total (A+B+C)	R (0-9)	Y (10-19) G (20-25)								

The Answers Are On The
Next Slide



no peeking

elyxandra

Name: _____

Date: _____

Class/Group: _____

A: Place Value, Add, Subtract, Multiply and Divide		B: Fractions, Ratio, Proportion and Algebra		C: Measure and Problem Solving									
1. Write one million, three hundred and eleven thousand, and six in digits.	^{6:1} 1,311,006	11. Which is the largest fraction? $\frac{2}{7}$, $\frac{3}{14}$ or $\frac{7}{28}$	^{6:7} $\frac{2}{7}$	21. Name the shape: "I have 4 sides equal in length but no right angles".	^{6:24} Rhombus								
2. What is the value of the 7 in this number? 1,383,721	^{6:1} 700	12. $\frac{3}{4} + \frac{2}{5} =$	^{6:8} $\frac{23}{20}$ or $1\frac{3}{20}$	22. The diameter of a circle is 18cm. How long is the radius ?	^{6:25} 9cm								
3. Round 8,523,912 to the nearest hundred thousand .	^{6:1} 8,500,000	13. Simplify your answer. $\frac{2}{7} \times \frac{5}{6} =$	^{6:9} $\frac{5}{21}$	23. Calculate the value of a .	^{6:26} 100°								
4. To a number I add 7 then subtract 9 and get -3. What did I start with?	^{6:2} -1	14. 3.121×10	^{6:10} 31.21										
5. $3,174 \times 63$	^{6:3} 199,962	15. 5.24×4	^{6:11} 20.96										
6. Give your answer to the nearest whole number : $1,602 \div 13$	^{6:3} 123	16. Write this decimal as a fraction and a percentage . 0.25	^{6:12} $\frac{1}{4}$, 25%	24. Complete the line graph for drinks sold by a market stall:	^{6:29}								
7. Which is a common multiple of 16 and 24? 16 24 48 54 60	^{6:4} 48	17. Find 30% of 90.	^{6:13} 27	<table border="1" style="display: inline-table; margin-right: 10px;"> <thead> <tr> <th>Day</th> <th>Fri</th> <th>Sat</th> <th>Sun</th> </tr> </thead> <tbody> <tr> <td>Drinks sold</td> <td>52</td> <td>60</td> <td>36</td> </tr> </tbody> </table>	Day	Fri	Sat	Sun	Drinks sold	52	60	36	Line graph drawn
Day	Fri	Sat	Sun										
Drinks sold	52	60	36										
8. Circle all the prime numbers : 71 73 75 77	^{6:4} 71, 73	18. What is the scale factor ? 7cm 35cm	^{6:14} 5										
9. $48 \div 8 + 6 \times 7$	^{6:5} 48	19. How long does a 5kg chicken take? To cook: 1 hour + 15mins per kg.	^{6:15} 2h 15m										
10. How much cheaper is a meal? Burger £2.49 Fries £1.19 Meal £3.20	^{6:6} 48p	20. What is the rule for this sequence? 5, 11, 17, 23, 29, ...	^{6:16} Add 6	25. Find the mean of these numbers: 10 7 4 12 9 18	^{6:30} 10								
Total (A)		Total (B)		Total (C)									
Test Total (A+B+C)		R (0-9)	Y (10-19)		G (20-25)								