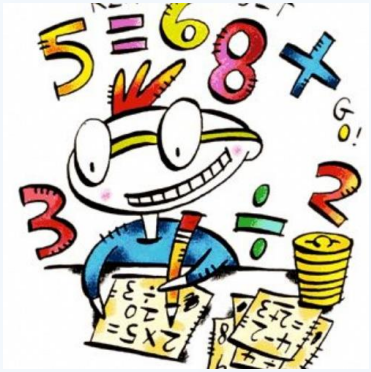
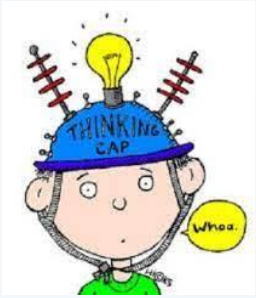
Maths Three Repeating Golden Threads





Fluency

Quick and. efficient recall of facts and procedures

Mastery

Pupils acquire a deep, long-term, secure adaptable understanding

Application

The use of maths everyday in the real world, outside the classroom.

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White Rose Small steps

mastery ⟷ fluency ⟷ application

Term Spring 1 **Week beginning** 10/1/23

Block Decimals

Key vocabulary tenths hundredths decimal point thousandths whole number rounding place value digit column

	B	W	S
Place value within 1			
Place value – integers and decimals			
Round decimals			
Add and subtract decimals			
Multiply by 10, 100 and 1,000			
Divide by 10, 100 and 1,000			
Multiply decimals by integers			
Divide decimals by integers			

Stem sentences

- There are ones, tenths, hundredths and thousandths
- The number is
- There are in
- is 10/100/1,000 times the size of
- is one-tenth/hundredth/thousandth the size of
- The previous/next multiple of is
- is closer to than
- So rounded to the nearest is

Mon 23.1.23

LO: To divide decimals by integers

1) 

÷ 3 =

2)

645				
?				

3) 646 ÷ 5 =

Do now- whiteboards

White Rose Maths

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1) 

$\div \quad 3 \quad = \quad 108$

	1	0	8
3	3	2	24

2)

645				
129				

	1	2	9
5	6	14	45

3) $646 \div 5 = 129$ r1

Crucial vocabulary

tenths – the first number to the right of the decimal point

Hundredths: *The second decimal place to the right of the decimal point; 1 of 100 equal parts. Example:* ***.8 7***

Thousandths: *The third decimal place to the right of the decimal point; 1 of 100 equal parts. Example:* ***.6 4 3***

Decimal Point: *A period separating the ones and tenths in a decimal number. Example:* ***7.4***

Whole Numbers: *The set of all counting numbers and 0. Example:* ***296***

integers

divide

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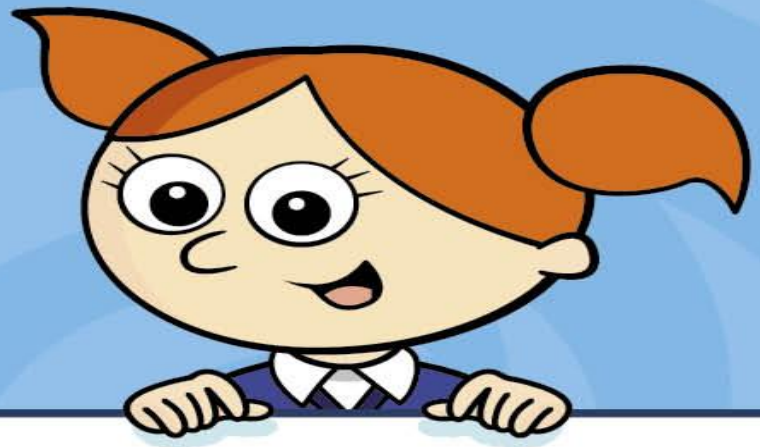
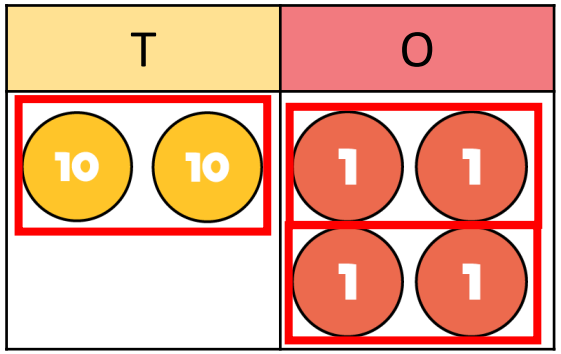


Let's learn

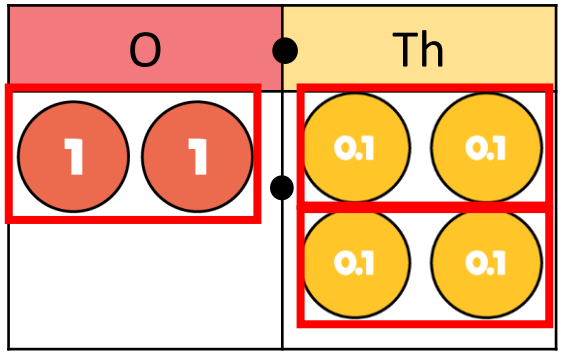
Get ready for today's new learning.



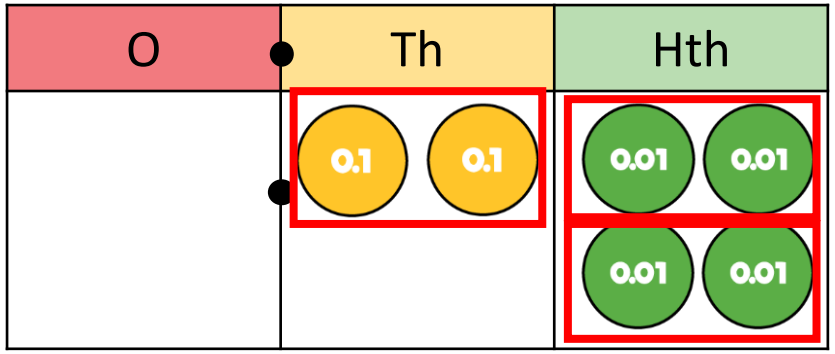
Have a think

$24 \div 2 = 12$

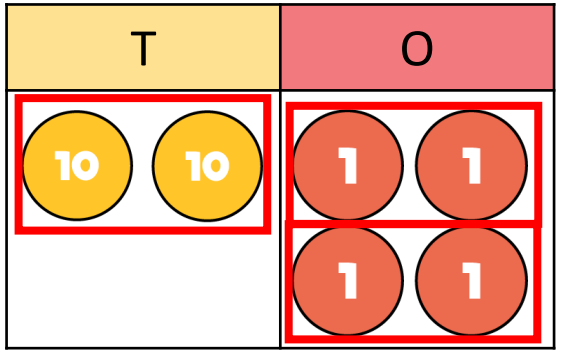
What do you notice?



$2.4 \div 2 = 1.2$

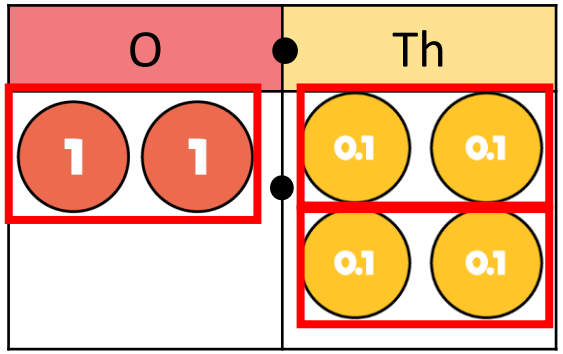


$0.24 \div 2 = 0.12$



$24 \div 2 = 12$

When the number being divided becomes 10 or 100 times smaller, the answer becomes 10 or 100 times smaller.



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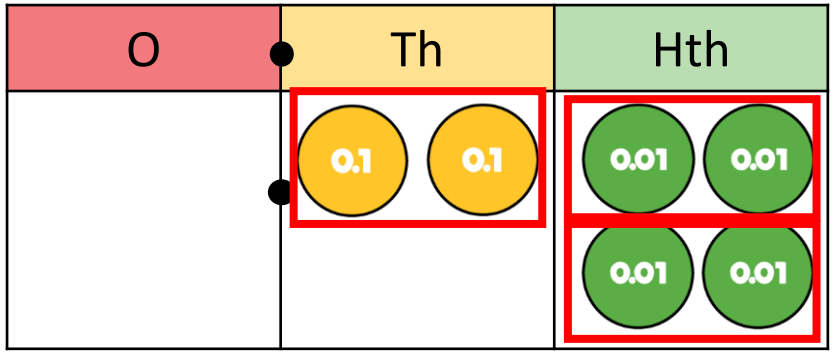

$0.24 \div 2 = 0.12$

When the number being divided becomes 10 or 100 times smaller, the answer becomes 10 or 100 times smaller.

Use this to complete these statements:

36 ÷ 6 = __6__ so 3.6 ÷ 6 = __0.6__

15 ÷ 3 = __5__ so 0.15 ÷ 3 = __0.05__

Have a think

White Rose Maths

When the number being divided becomes 10 or 100 times smaller, the answer becomes 10 or 100 times smaller.

Use this to complete these statements:

Mon

$36 \div 6 =$ ____ so $3.6 \div 6 =$ ____

$15 \div 3 =$ ____ so $0.15 \div 3 =$ ____

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$36 \div 6 =$ ____ so $3.6 \div 6 =$ ____

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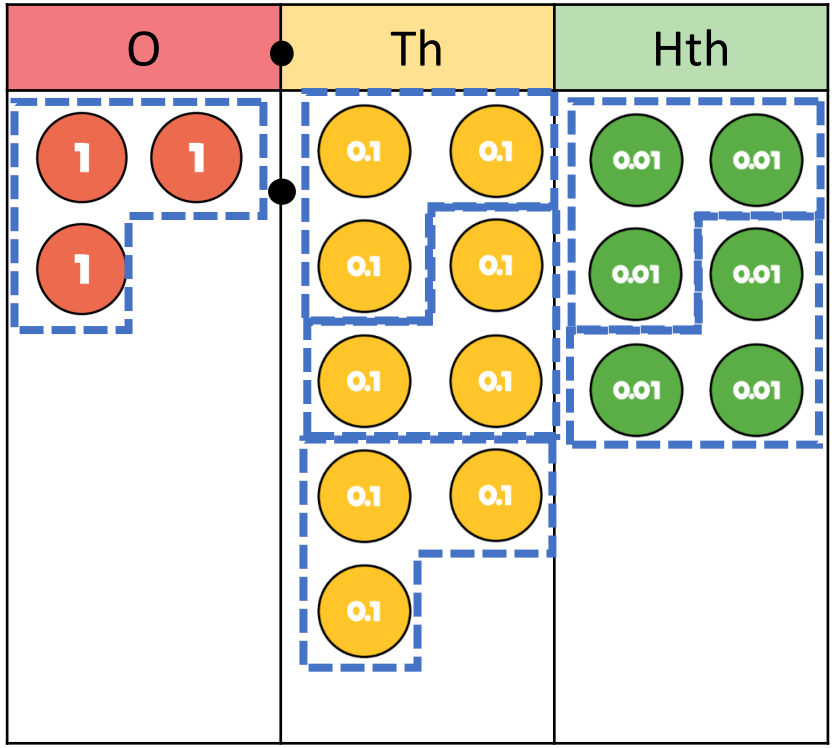
Guided

Mr Rose is building some garden furniture.

His plank of wood is 3.96 m long.
He needs to cut it into 3 equal pieces.

How long is each piece?



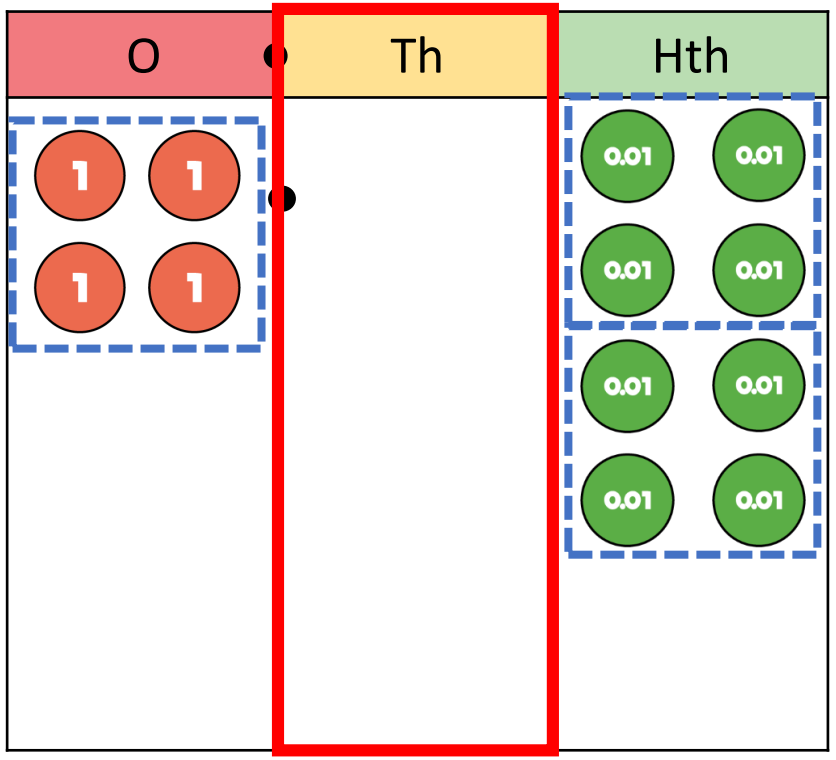
	1	3	2
3	3	9	6

Each piece of wood will be 1.32 m long.

Have a think

Mr Rose has another plank of wood that is 4.08 m long.
He needs to cut it into four equal pieces.

How long is each piece?



1.2 m or 1.02 m?

	1	.	0	2
4	4	.	0	8

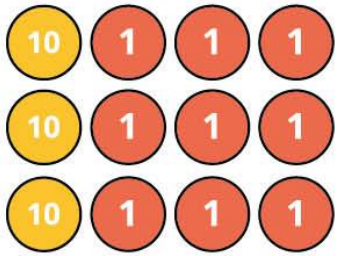
Each piece of wood will be 1.02 m long.

Your turn

Divide decimals by integers

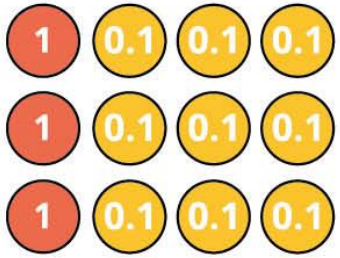
1 Use the place value counters to complete the divisions.

a)



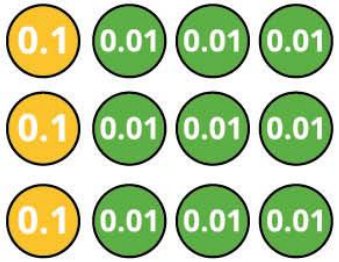
$39 \div 3 =$ ☐

b)



$3.9 \div 3 =$ ☐

c)



$0.39 \div 3 =$ ☐

What do you notice?

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2 Complete the divisions.

a) $54 \div 6 =$ ☐

$5.4 \div 6 =$ ☐

b) $72 \div 9 =$ ☐

$0.72 \div 9 =$ ☐

c) $35 \div 5 =$ ☐

$0.35 \div 5 =$ ☐

d) $64 \div 8 =$ ☐

$6.4 \div 8 =$ ☐

What do you notice?

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1 Use the place value counters to complete the divisions.

a)

39 ÷ 3

b)

3.9 ÷ 3

c)

0.39 ÷ 3

What do you notice?

2 Complete the divisions.

a) 54 ÷ 6

5.4 ÷ 6

b) 72 ÷ 9

0.72 ÷ 9

c) 35 ÷ 5

0.35 ÷ 5

d) 64 ÷ 8

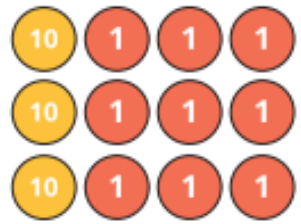
6.4 ÷ 8

What do you notice?

Mon
Tri
Sq

1 Use the place value counters to complete the divisions.

a)



39 ÷ 3

b)

3.9 ÷ 3

c)

0.39 ÷ 3

What do you notice?

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c) 35 ÷ 5

0.35 ÷ 5

d) 64 ÷ 8

6.4 ÷ 8

What do you notice?

5 Brett uses short division to work out 13.2 ÷ 6

		0	2 • 2		
	6	1	$^{1}3$ • $^{1}2$		

Use short division to work out the calculations.

a)

			•		
	7	2	2 • 4		

b)

			•			
	8	1	8 • 4	8		

Hexagon and Octagon- copy into books Tri Sq Extension

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Mon
Tri Sq Extension

5 Brett uses short division to work out 13.2 ÷ 6

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		6	1	$^{1}3$ • $^{1}2$	

Use short division to work out the calculations.

a)

			•		
		7	2	2 • 4	

b)

			•		
		8	1	8 • 4	8

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6 Work out the divisions.

a) 25.6 ÷ 8 = ☐

b) 14.8 ÷ 4 = ☐

c) 18.48 ÷ 6 = ☐

d) ☐ = 19.45 ÷ 5

e) 202.35 ÷ 3 = ☐

f) 105.12 ÷ 9 = ☐

Hexagon and Octagon- copy into books

© White Rose Maths 2022

Max has £7.48

He shares this money equally between him and 5 friends.

He puts the money left over in a pot.

How much money does he put in the pot?

Hexagon and Octagon

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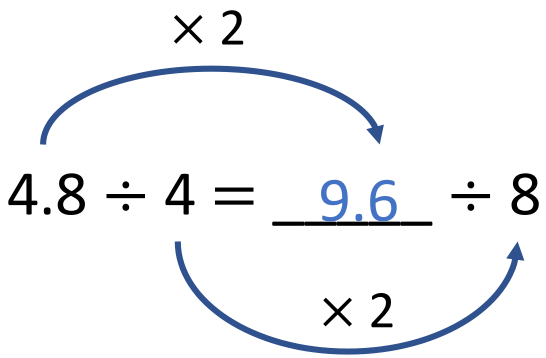
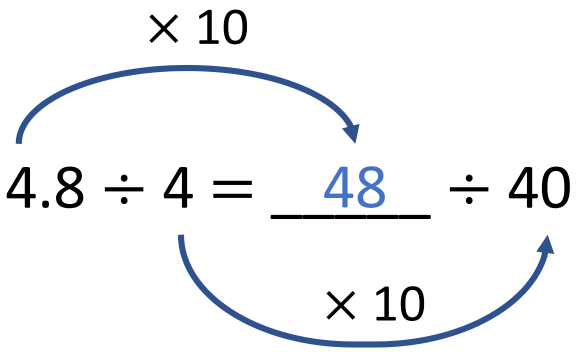
Fill in the missing numbers.

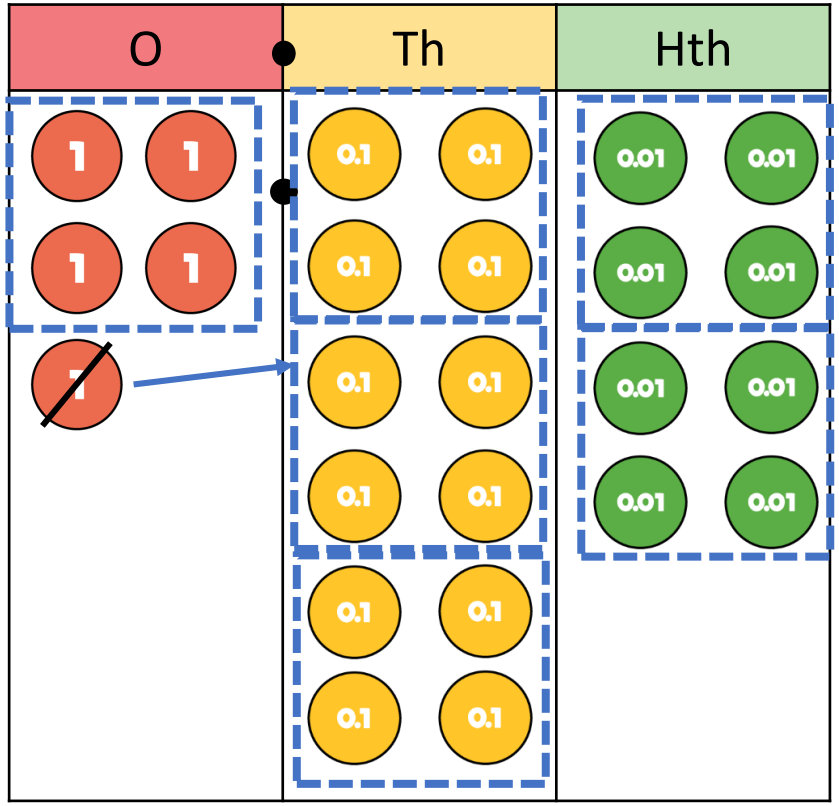




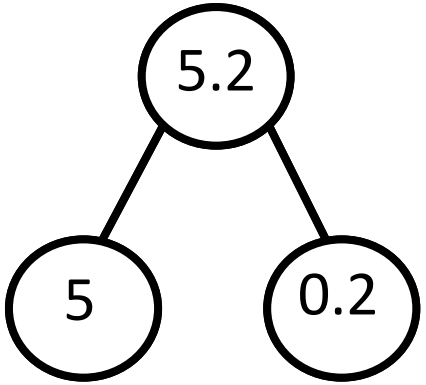
Have a think

Hexagon and Octagon- copy into books

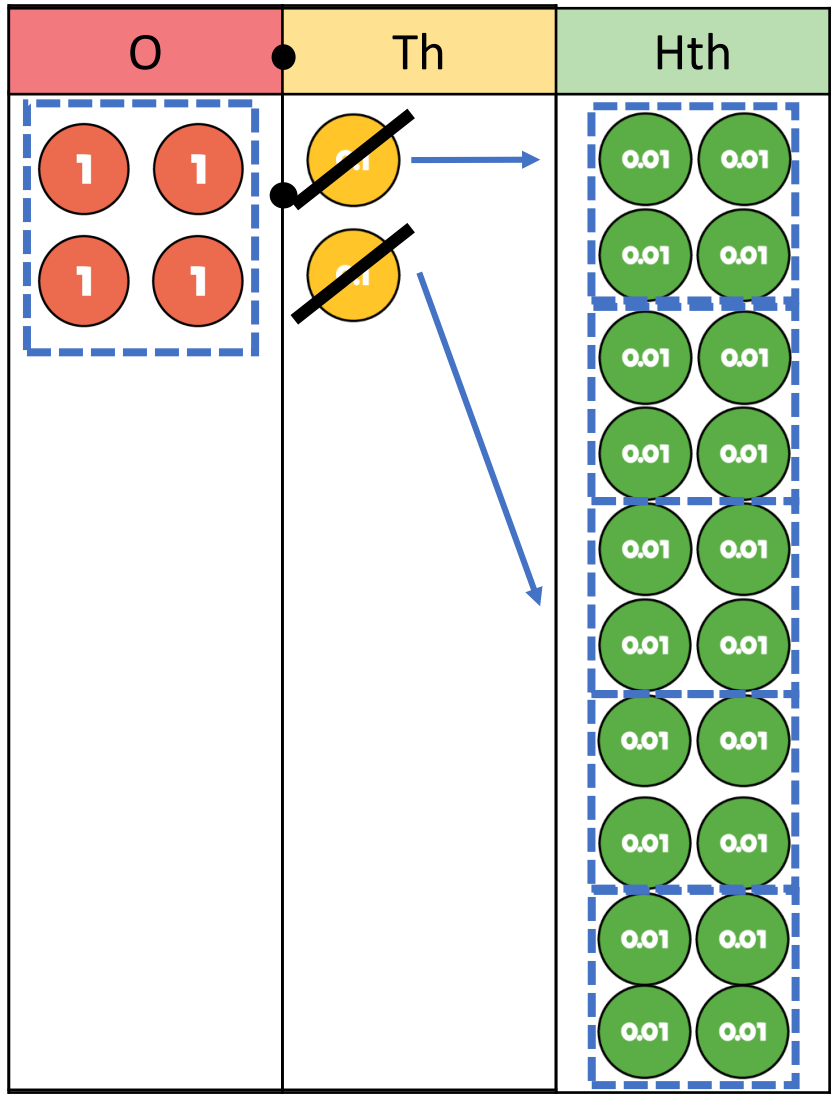
Calculate 5.28 divided by 4



	1	3	2
4	5	1 2	8



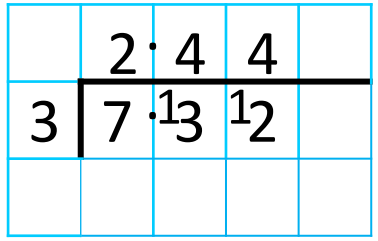
Calculate 4.2 divided by 4



	1	0	5
4	4	2	$^{2}0$

Have a think

Use the short division method to calculate 7.32 ÷ 3

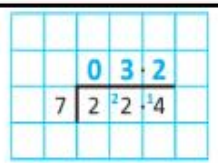
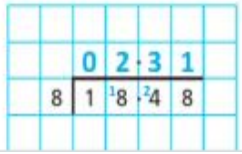


How many groups of 3 ones are there?

How many groups of 3 tenths are there?

How many groups of 3 hundredths are there?

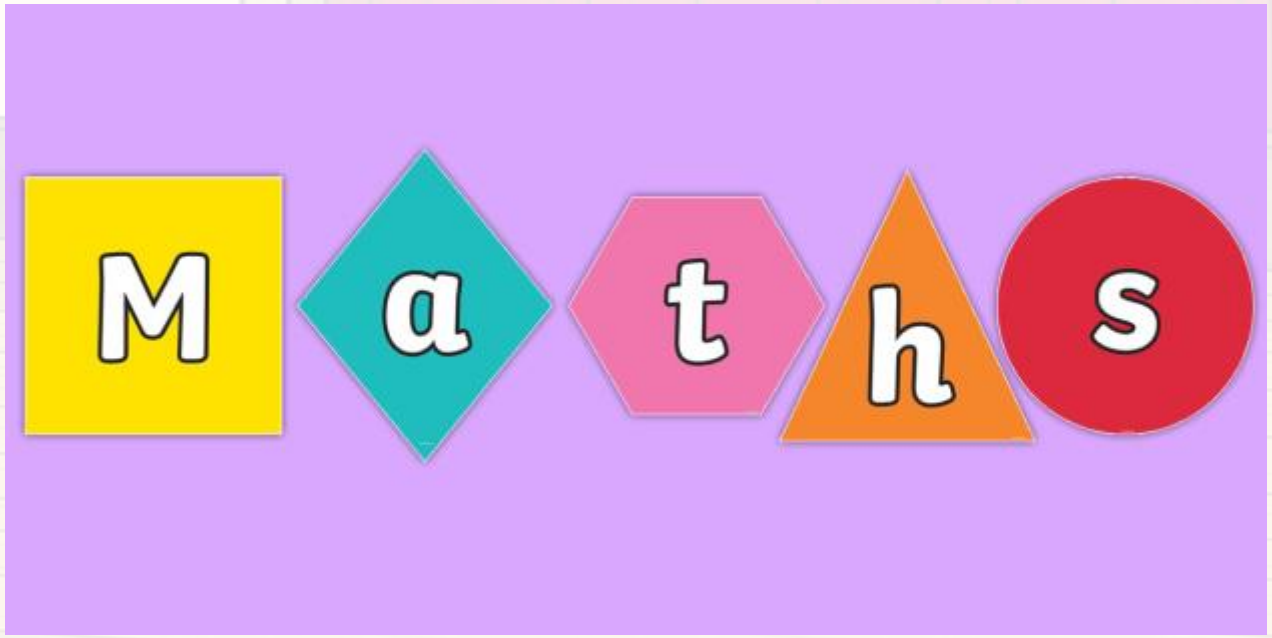
Have a think

Question	Answer
1	a) 13 b) 1.3 c) 0.13 The digits are the same. When the number being divided is a factor of 10 smaller, the answer is also a factor of 10 smaller.
2	a) 9 0.9 b) 8 0.08 c) 7 0.07 d) 8 0.8 The digits are the same. When the number being divided is a factor of 10 smaller, the answer is also a factor of 10 smaller. When the number being divided is a factor of 100 smaller, the answer is also a factor of 100 smaller.
3	a) 2.1 b) 4.1
4	a) 4.1 b) 12.1 c) 10.1
5	a)  b) 

Question	Answer
7	a) 2.41 24.1 0.241 1.205 b) 2.16 2.17 2.18 2.19 When the number being divided is ten times the size, the answer is also ten times times the size.. When the number being divided is smaller by a factor of 10, the answer is a tenth of the size. When the same number being divided by is the same, but the number it is being divided by is doubled, then the answer is halved. When the number is being divided by 9 and the number being divided increases by 0.9, the answer increases by 0.1
8	a) $3.6 \div 4 = 36 \div 40$ $3.6 \div 4 = 7.2 \div 8$ b) $7.8 \div 6 = 78 \div 60$ $7.8 \div 6 = 3.9 \div 3$
9	possible answers include: $8.4 \div 8 = 4.2 \div 4$ $8.4 \div 6 = 4.2 \div 3$ $8.4 \div 4 = 4.2 \div 2$ $8.4 \div 2 = 4.2 \div 1$ The first number is twice the second number.

Mon-Maths meeting

Key skills check 2 Stage 6



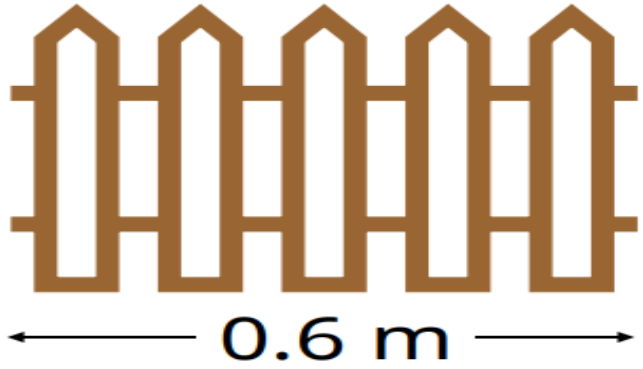
Tues 24.1.23

LO: To multiply and divide decimals in context

True or False?

Multiply and divide decimals in context

If each fence panel measures 0.6 m,
5 fence panels measure 3 m.



Prove it!

Books

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True

$$6 \times 5 = 30$$

so

$$0.6 \times 5 = 3$$

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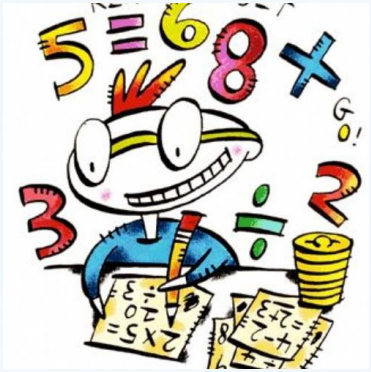
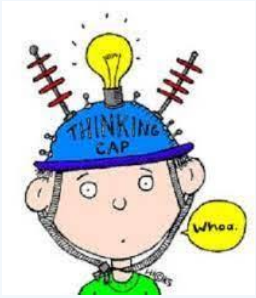
Maths Three Repeating Golden Threads





Fluency

Quick and. efficient recall of facts and procedures

Mastery

Pupils acquire a deep, long-term, secure adaptable understanding

Application

The use of maths everyday in the real world, outside the classroom.

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mastery ⟷ fluency ⟷ application

Term Spring 1 **Week beginning** 10/1/23

Block Decimals

Key vocabulary tenths hundredths decimal point thousandths whole number rounding place value digit column

	B	W	S
Place value within 1			
Place value – integers and decimals			
Round decimals			
Add and subtract decimals			
Multiply by 10, 100 and 1,000			
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Divide decimals by integers			

Stem sentences

- There are ones, tenths, hundredths and thousandths
- The number is
- There are in
- is 10/100/1,000 times the size of
- is one-tenth/hundredth/thousandth the size of
- The previous/next multiple of is
- is closer to than
- So rounded to the nearest is

1) $45 \div 9 =$ ____, so $4.5 \div 9 =$ ____

2) $8 \times 6 =$ ____, so $8 \times 0.6 =$ ____

3) $72 \div 8 =$ ____, so $0.72 \div 8 =$ ____

4) $12 \times 7 =$ ____, so $1.2 \times 7 =$ ____

Whiteboards

1) $45 \div 9 =$ __5__, so $4.5 \div 9 =$ __0.5__

2) $8 \times 6 =$ __48__, so $8 \times 0.6 =$ __4.8__

3) $72 \div 8 =$ __9__, so $0.72 \div 8 =$ __0.09__

4) $12 \times 7 =$ __84__, so $1.2 \times 7 =$ __8.4__

Guided

A banana has a mass of 0.18 kg 

What is the mass of 7 bananas? 1.26 kg

	0 ·	1	8
×			7
	1 ·	2	6
	1	5	

7 multiplied by 8 hundredths = 56 hundredths

50 hundredths can be exchanged for 5 tenths

7 multiplied by 1 tenth = 7 tenths

10 tenths can be exchanged for 1 one

7 multiplied by 0 ones = 0

A square has a perimeter of 0.824 m

How long is one side? 0.206 m

	0 · 2	0	6	
4	0 · 8	2	$^{2}4$	

Have a think

A square has a perimeter of 0.824 m

How long is one side?

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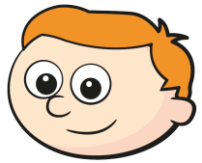
A square has a perimeter of 0.824 m

How long is one side?

Tues

Ron has helped his mum wash the car 7 times.

He gets the same amount of money each time he helps.



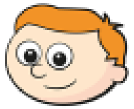
Ron has earned £29.40

How much money does he get each time he helps wash the car?

Have a think

Ron has helped his mum wash the car 7 times.

He gets the same amount of money each time he helps.



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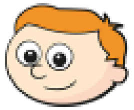

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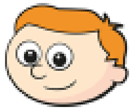

Ron has earned £29.40

How much money does he get each time he helps wash the car?

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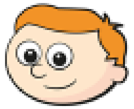

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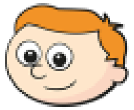

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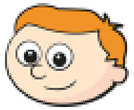

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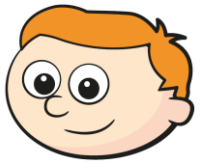
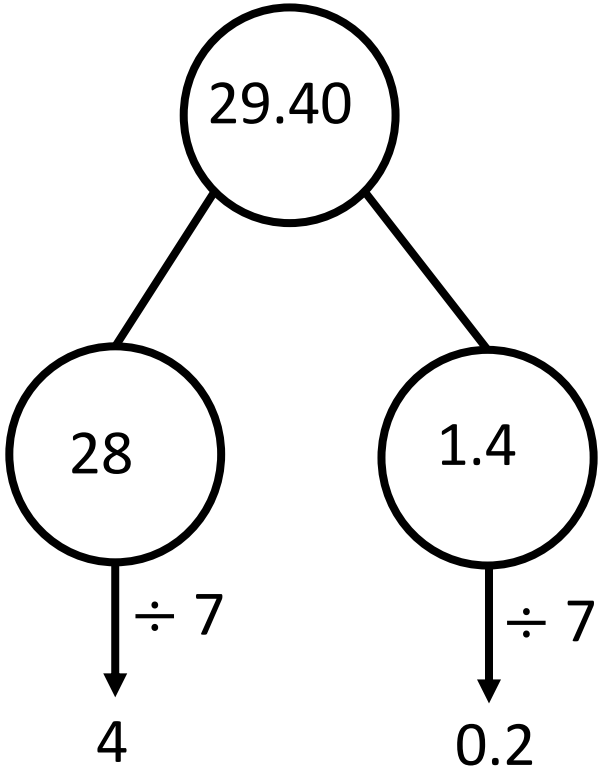
Tues

£29.40 ÷ 7 = £4.20



	0	4	.	2	0
7	2	$^{2}9$	.	$^{1}4$	0



Your turn

Tues

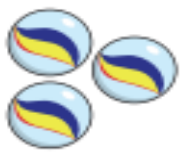
1. A cake has a mass of 0.3 kg.
   What is the mass of six of these cakes?

2. An apple has a mass of 0.12 kg.
   What is the mass of nine of these apples?

3. The length of a table is 0.7 m.
   What is the length of eight of these tables?

4. A bottle of milk costs £1.09
   How much do five of these bottles of milk cost?

5. 3 identical marbles have a total mass of 12.6 g.
   What is the mass of one of these marbles?



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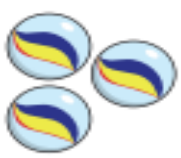

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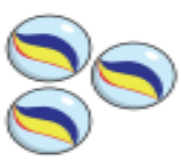

Multiply and divide decimals in context

1 A cake has a mass of 0.3 kg.

What is the mass of six of these cakes?

kg

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2 An apple has a mass of 0.12 kg.

What is the mass of nine of these apples?

kg

© White Rose Maths 2022

3 The length of a table is 0.7 m.

What is the length of eight of these tables?

 m

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4 A bottle of milk costs £1.09

How much do five of these bottles of milk cost?

£ ☐

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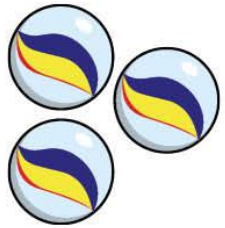

g

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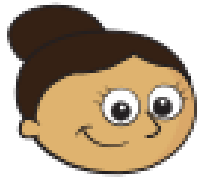
Hexagon

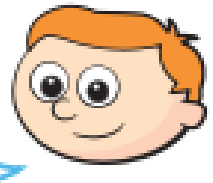
Octagon

9 Dora, Ron and Teddy are making paper chains.



Dora: My paper chain is 1.1 m long.

Teddy: My paper chain is three times longer than Ron's.



Ron: Dora's paper chain is twice as long as mine.

a) How long is Ron's paper chain?

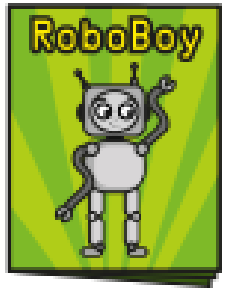
b) How long is Teddy's paper chain?

10 Comics cost £3.29

Sam buys 5 comics.

She pays with a £20 note.

How much change does she get?



11 Shop A sells 5 tins of paint for £23.40

Shop B sells 3 tins of the same paint for £14.01

Which shop should Ms Trent buy her paint from?

Explain your reasoning.

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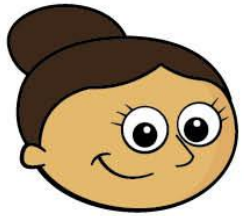

My paper chain is 1.1 m long.

Dora

Dora's paper chain is twice as long as mine.

Ron

My paper chain is three times longer than Ron's.

Teddy

a) How long is Ron's paper chain? ☐ m

b) How long is Teddy's paper chain? ☐ m

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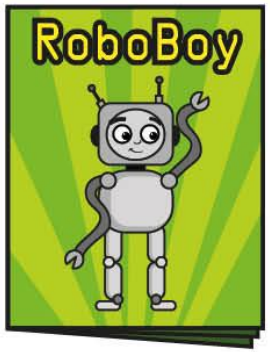

£ ☐

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Which shop should Ms Trent buy her paint from? _____

Explain your reasoning.

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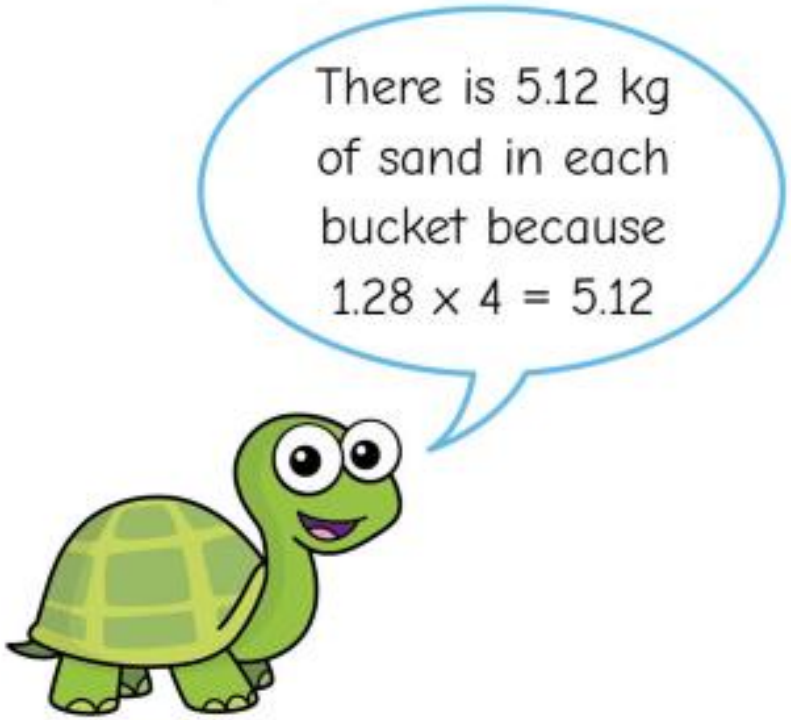
Extension

1.28 kg of sand is shared equally between 4 buckets.



Explain the mistake that Tiny has made.

What is the mass of sand in each bucket?

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Tues Ext

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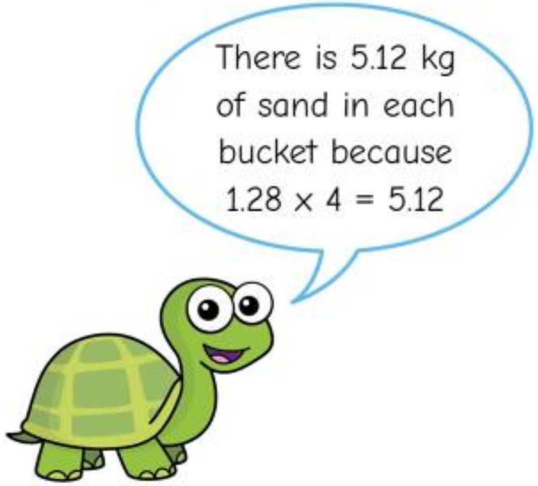

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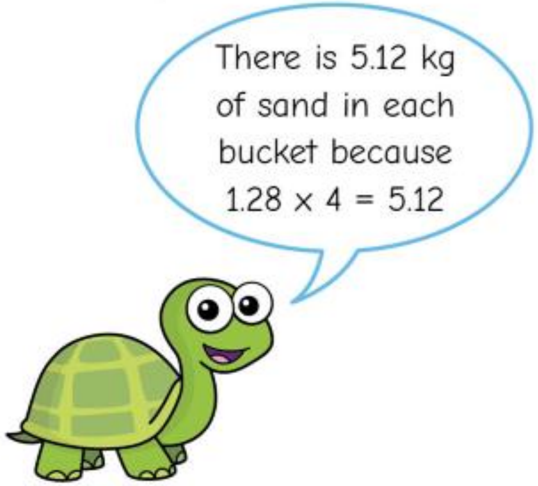

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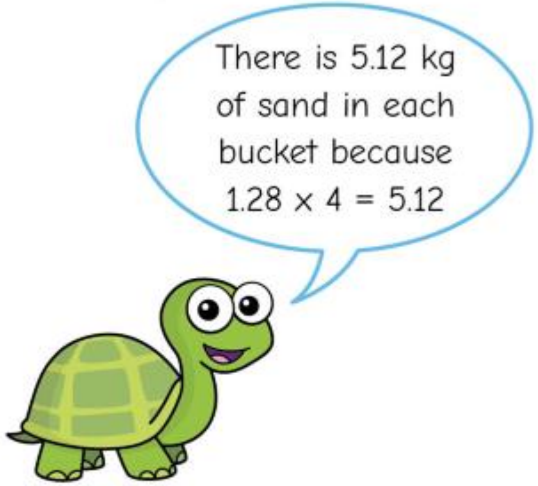

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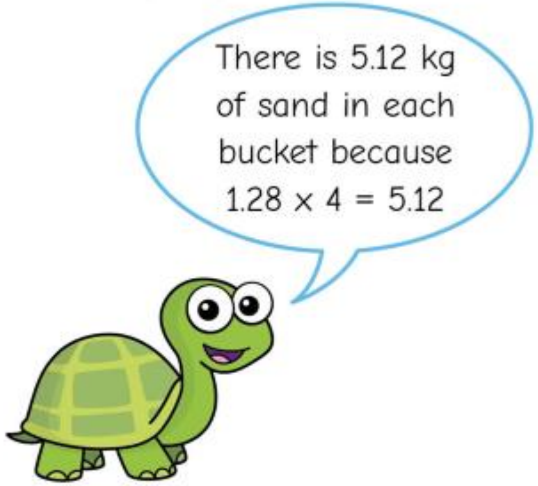

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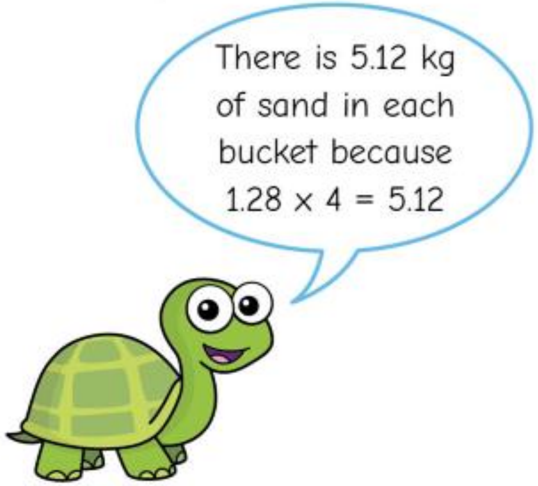

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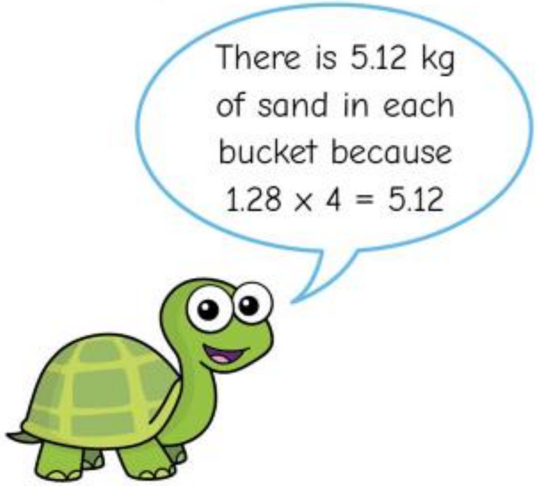
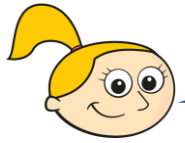


Explain the mistake that Tiny has made.
What is the mass of sand in each bucket?

Eva, Mo and Jack are having a go at the long jump.



Eva

I jumped 4.6 metres.

I jumped $\frac{3}{4}$ of the length Eva jumped.

Mo

Jack

Eva jumped twice as far as me.

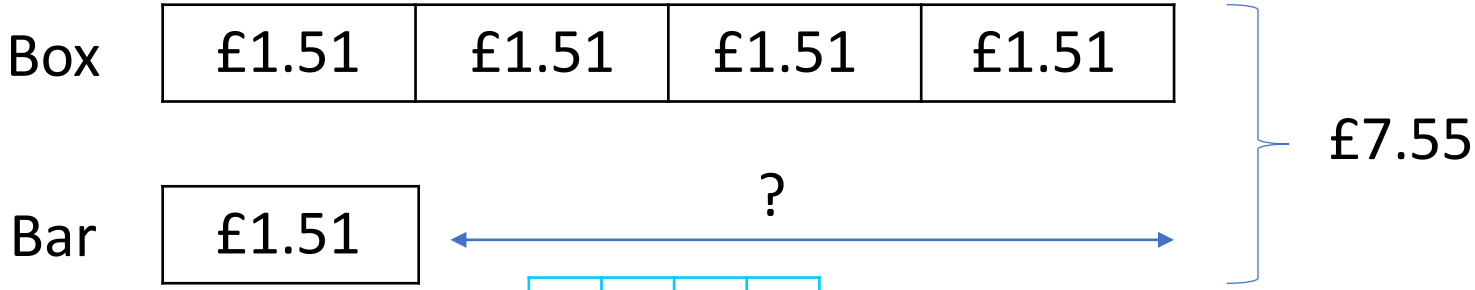
How far did Mo and Jack jump?

Have a think

A box of chocolates costs 4 times as much as a chocolate bar.

Together they cost £7.55

How much more does the box of chocolates cost than the chocolate bar?



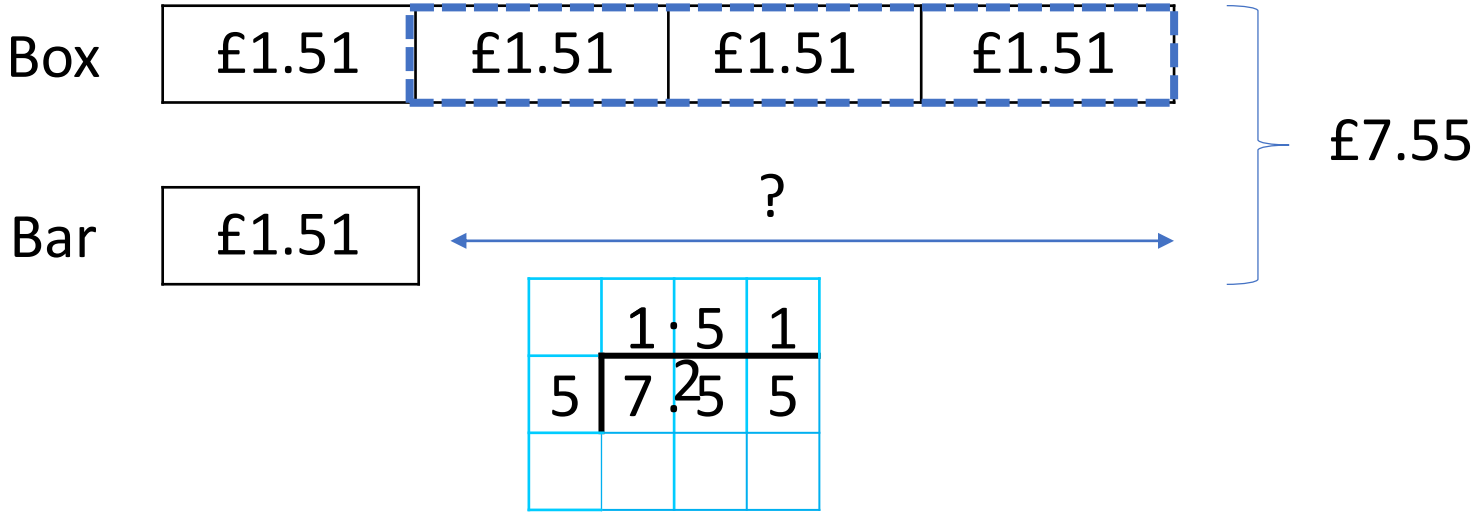
	1	5	1
5	7	2 5	5

Have a think

A box of chocolates costs 4 times as much as a chocolate bar.

Together they cost £7.55

How much more does the box of chocolates cost than the chocolate bar? £4.53

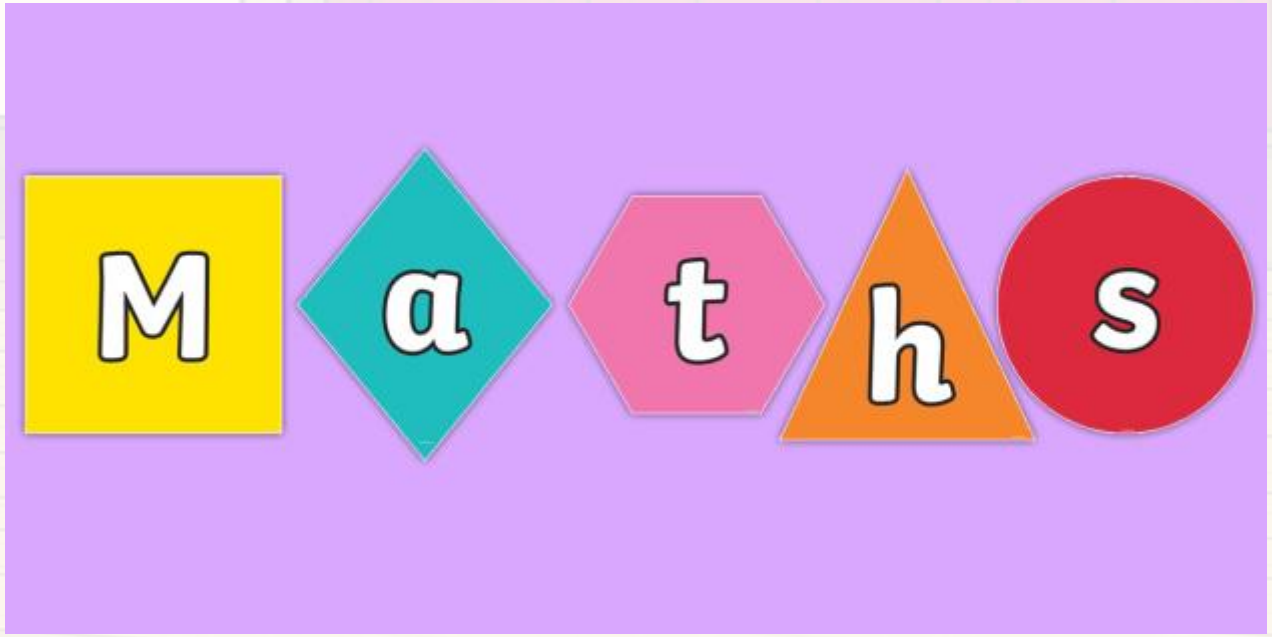


Y6 – Spring – Block 3 – Step 9 – Multiply and divide decimals in context Answers

Question	Answer
1	1.8 kg
2	1.08 kg
3	5.6 m
4	£5.45
5	4.2 g
6	0.12 m
7	0.16 m
8	£3.33
9	a) 0.55 m b) 1.65 m
10	£3.55
11	Shop B Shop A: A tin of paint costs £4.68 Shop B: A tin of paint costs £4.67
12	£0.35 or 35p
13	0.08 kg

Tues-Maths meeting

Multiplication revision x 7



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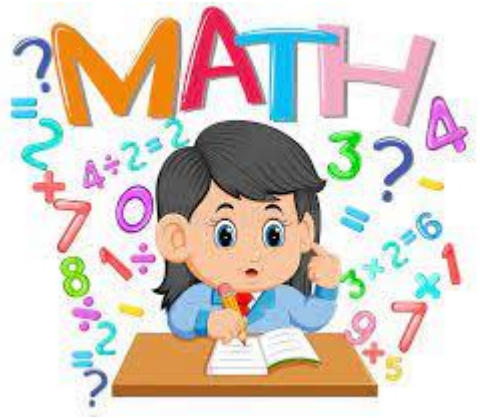
https://www.youtube.com/watch?v=QqHInmo3DRI&list=PLU00esrkogUlR9VQzGPf_RT4CUTCP9OO9&index=6



X 7 practice…

How quickly can you write them on your whiteboard?

Jog and chant!

Test a friend!

Complete the challenge

Exercise 18

7 × 5 =	9 × 7 =
63 ÷ 7 =	4 × 7 =
6 × 7 =	14 ÷ 7 =
84 ÷ 7 =	2 × 7 =
7 × 1 =	8 × 7 =
28 ÷ 4 =	7 × 7 =
7 × 7 =	5 × 7 =
1 × 7 =	63 ÷ 7 =
70 ÷ 7 =	7 × 8 =
2 × 7 =	42 ÷ 7 =

Tues

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Weds 25.1.23

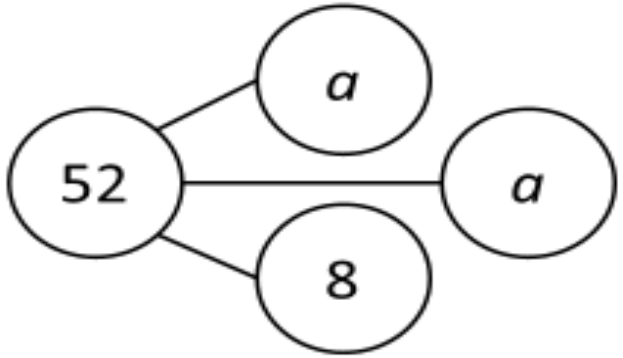
LO: To find decimal and fraction equivalents

Flashback 4

Year 6 | Week 5 | Day 3

1) What is the value of 3 in the number 204.31?

2) $a =$ ☐



Whiteboards!

3) The ratio of yellow to blue paving stones on a patio is 3 : 4 Mo needs 35 paving stones to cover his garden, how many stones of each colour does Mo need to buy?

4) $-5 = -10 +$ ☐

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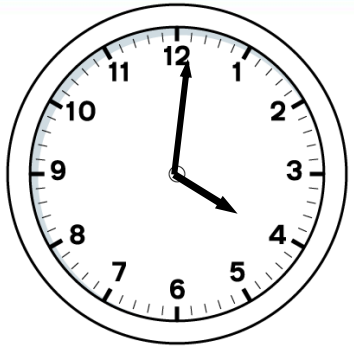
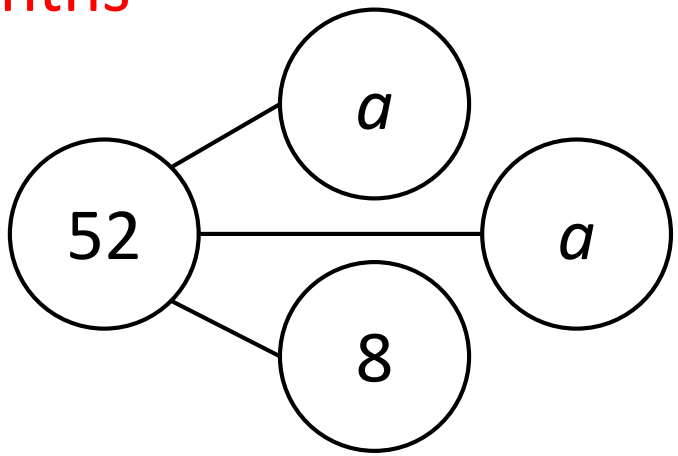
Flashback 4



1) What is the value of 3 in the number 204.31?

0.3 or 3 tenths

2) $a =$ 22



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15 and 20

4) $-5 = -10 +$ 5

White Rose Maths

Term Spring 1 **Week beginning** 23/1/23

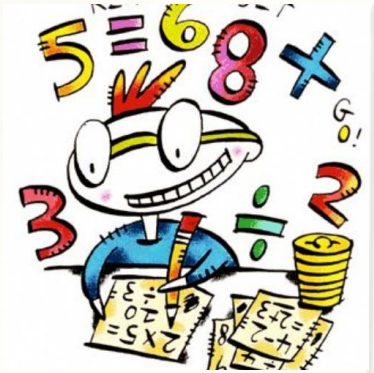
Block Fractions, Decimals and Percentages

Key vocabulary order discount calculation divide multiply round lowest common multiple mixed numeral unit fraction simplify compare equivalent convert denominator numerator thousandths hundredths tenths improper fraction proper fraction common fraction

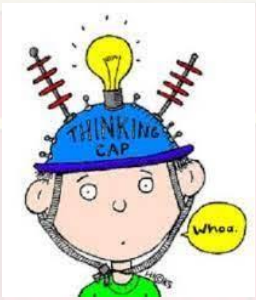
	B	W	S
Decimal and fraction equivalents			
Fractions as division			
Understand percentages			
Fractions to percentages			
Equivalent fractions, decimals and percentages			
Order fractions, decimals and percentages			
Percentage of an amount – one step			
Percentage of an amount – multi-step			
Percentages- missing values			

Stem sentences

- The first/second digit after a decimal point represents
- To find an equivalent fraction, I need to or the and the by the same number.
- The fraction can be expressed as ÷
- ÷ is the same as the fraction
- If the whole is shared into 100/10/5/4/2 equal parts, each part represents %.
- If parts are shaded, the percentage shown is %
- . • Things to look out for To find %, I can halve %



Maths Three Repeating Golden Threads



Fluency

Quick and. efficient recall of facts and procedures

Mastery

Pupils acquire a deep, long-term, secure adaptable understanding

Application

The use of maths everyday in the real world, outside the classroom.

twinkl.co.uk

1) What fraction of the bar is shaded?

What fraction of the bar is not shaded?

2) Write $\frac{1}{2}$ as a decimal.

3) Write 0.1 as a fraction.

4) What part of the bar is shaded?
Write your answer as a decimal.

Weds

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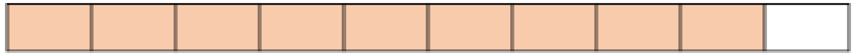
What fraction of the bar is not shaded?



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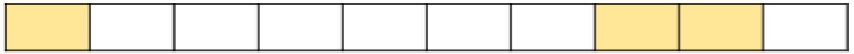

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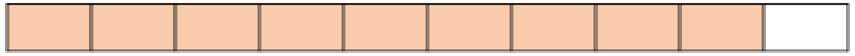

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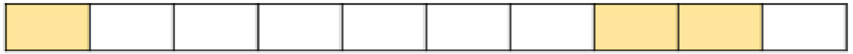

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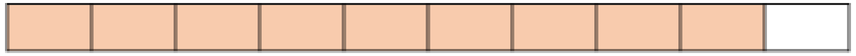

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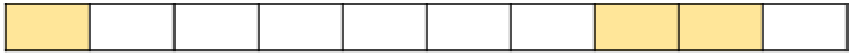

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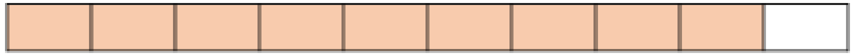

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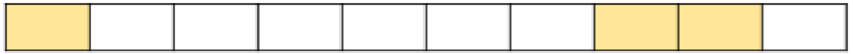
4) What part of the bar is shaded?
Write your answer as a decimal.



1) What fraction of the bar is shaded? $\frac{9}{10}$

What fraction of the bar is not shaded? $\frac{1}{10}$

2) Write $\frac{1}{2}$ as a decimal. 0.5

3) Write 0.1 as a fraction. $\frac{1}{10}$

4) What part of the bar is shaded?
Write your answer as a decimal. 0.3

White Rose Maths

The bar is split into tenths.

Complete the sentences.

The whole has been divided into _10_ equal parts.

Each part is worth _0.1_

As a fraction, that is written _$\frac{1}{10}$_

Guided

Have a think

Guided

Each bar is split into tenths.

What fraction and what decimal is shaded in each diagram?

The whole has been divided into _10_ equal parts.

Each part is worth _0.1_

_3_ parts out of _10_ are shaded.

_0.3_ of the bar is shaded.

This is equivalent to $\frac{3}{10}$

Have a think

Each bar is split into tenths.

What fraction and what decimal is shaded in each diagram?

The whole has been divided into _10_ equal parts.

Each part is worth _0.1_

_7_ parts out of _10_ are shaded.

_0.7_ of the bar is shaded.

This is equivalent to _$\frac{7}{10}$_

Each bar is split into tenths.

What fraction and what decimal is shaded in each diagram?

The whole has been divided into ____ equal parts.

Each part is worth ____

____ parts out of ____ are shaded.

____ of the bar is shaded.

This is equivalent to ____

Each bar is split into tenths.

What fraction and what decimal is shaded in each diagram?

The whole has been divided into ____ equal parts.

Each part is worth ____

____ parts out of ____ are shaded.

____ of the bar is shaded.

This is equivalent to ____

Each bar is split into tenths.

What fraction and what decimal is shaded in each diagram?

The whole has been divided into ____ equal parts.

Each part is worth ____

____ parts out of ____ are shaded.

____ of the bar is shaded.

This is equivalent to ____

Each bar is split into tenths.

What fraction and what decimal is shaded in each diagram?

The whole has been divided into ____ equal parts.

Each part is worth ____

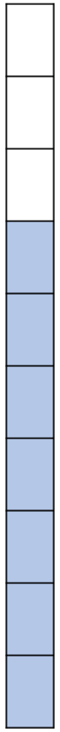
____ parts out of ____ are shaded.

____ of the bar is shaded.

This is equivalent to ____

Each bar is split into tenths.

What fraction and what decimal is shaded in each diagram?



The whole has been divided into ____ equal parts.

Each part is worth ____

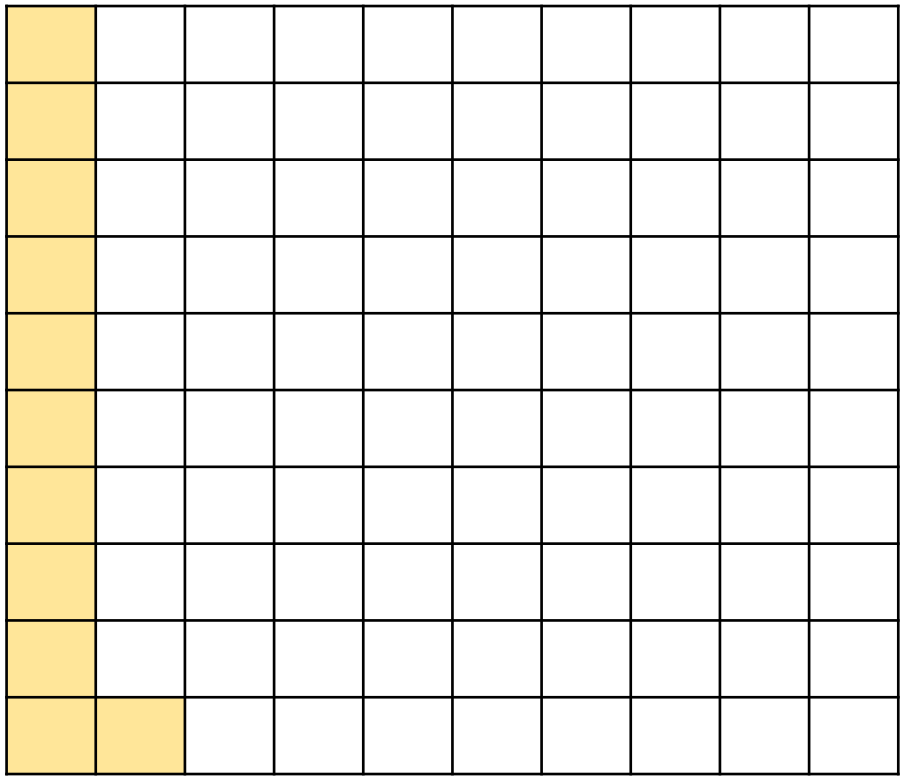
____ parts out of ____ are shaded.

____ of the bar is shaded.

This is equivalent to ____

Weds

The hundred square is worth 1

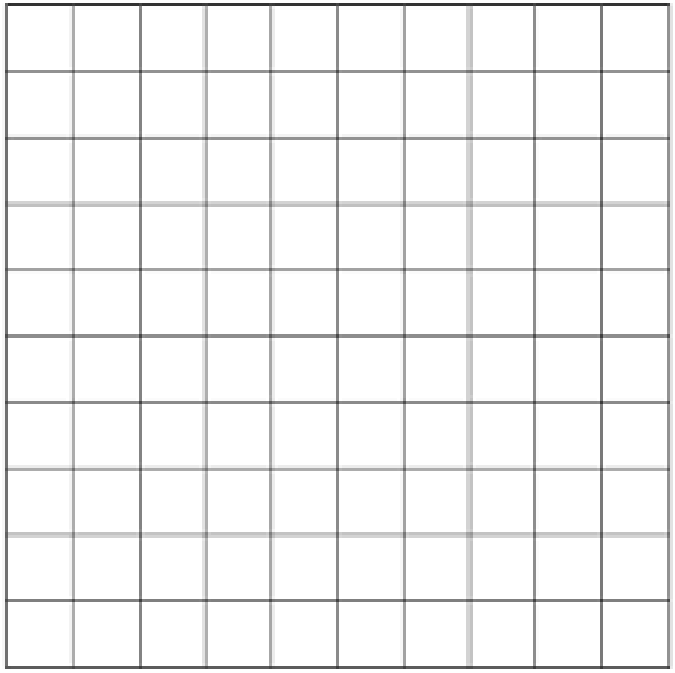
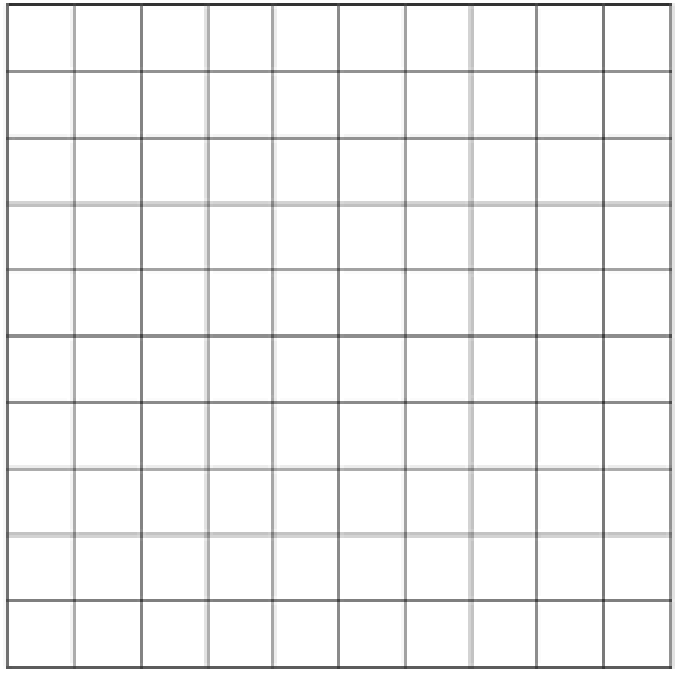
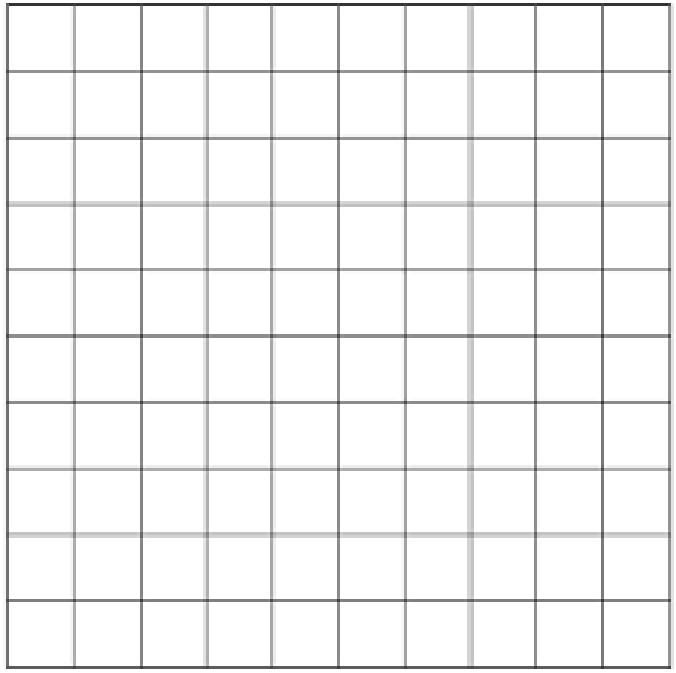
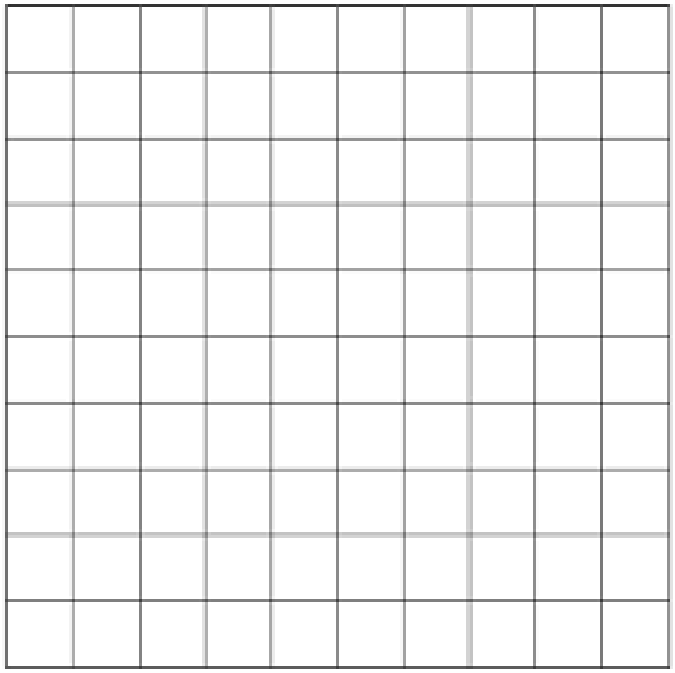
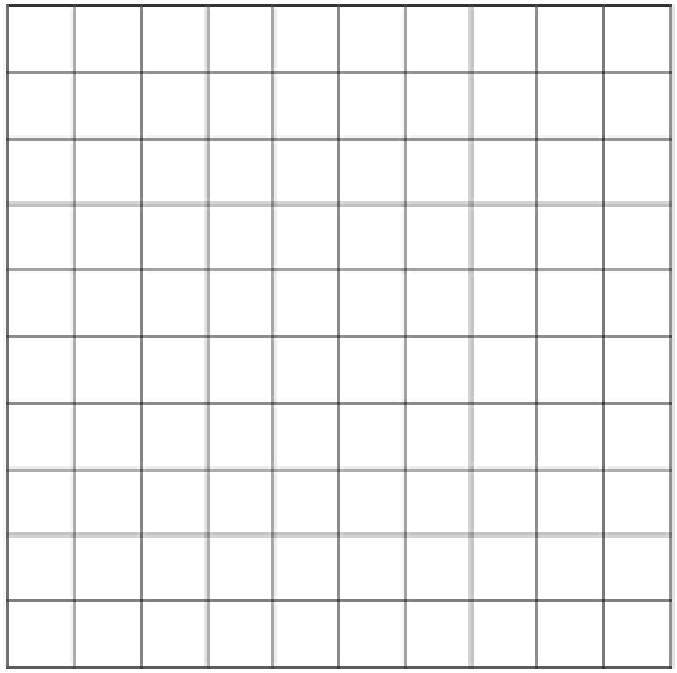
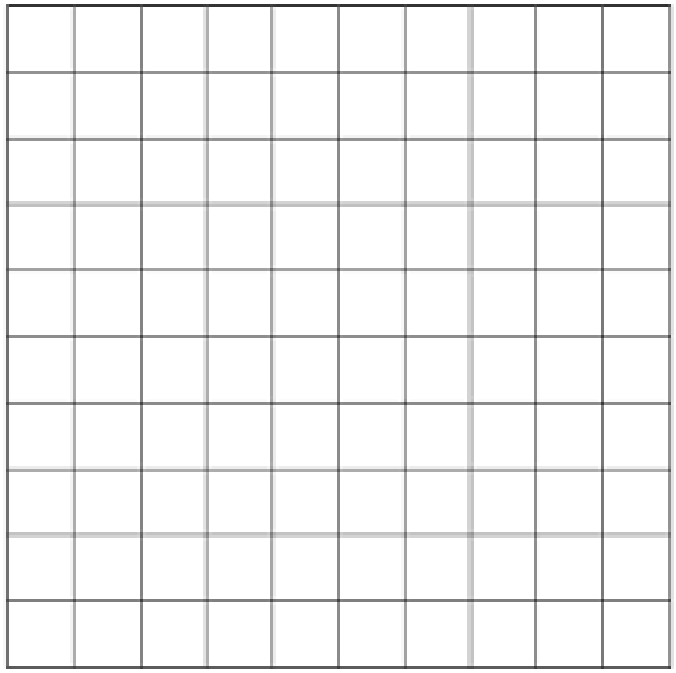


The whole has been divided into 100 equal parts.

Each part is worth 0.01

11 parts out of 100 are shaded.

0.11 $\frac{11}{100}$

Weds

The whole has been divided into ____ equal parts.
Each part is worth ____
____ parts out of ____ are shaded.

The whole has been divided into ____ equal parts.
Each part is worth ____
____ parts out of ____ are shaded.

The whole has been divided into ____ equal parts.
Each part is worth ____
____ parts out of ____ are shaded.

The whole has been divided into ____ equal parts.
Each part is worth ____
____ parts out of ____ are shaded.

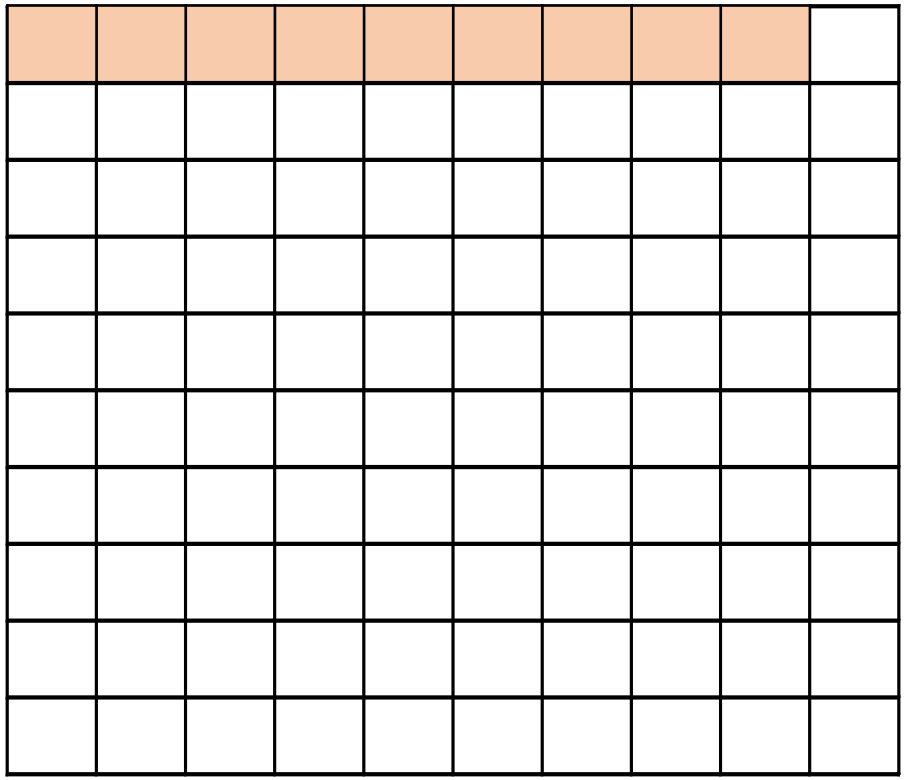
The whole has been divided into ____ equal parts.
Each part is worth ____
____ parts out of ____ are shaded.

The whole has been divided into ____ equal parts.
Each part is worth ____
____ parts out of ____ are shaded.

Weds

White Rose Maths

Shade 0.09 of the hundred square.



__9__ parts out of __100__ are shaded.

Write 0.09 as a fraction. $\frac{9}{100}$

Have a think

Your turn

1 Complete the sentences.

a)

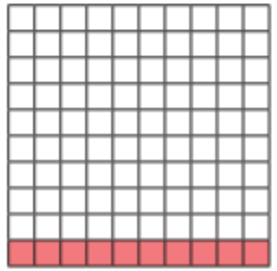
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

The whole has been divided into ☐ equal parts.

Each part is worth ☐

This is equivalent to ☐

b)



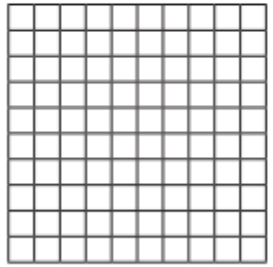
The whole has been divided into ☐ equal parts.

Each part is worth ☐

☐ parts out of ☐ are shaded.

This is equivalent to ☐

2 **a)** Shade 0.17 of the hundred square.



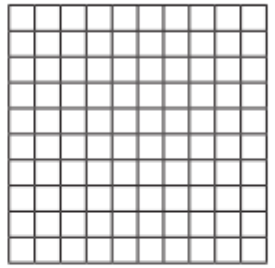
Complete the sentence.

☐ parts out of ☐ are shaded.

Write 0.17 as a fraction.

0.17 = ☐

b) Shade 0.2 of the hundred square.



Complete the sentence.

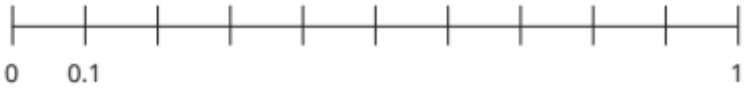
☐ parts out of ☐ are shaded.

Write 0.2 as a fraction in its simplest form.

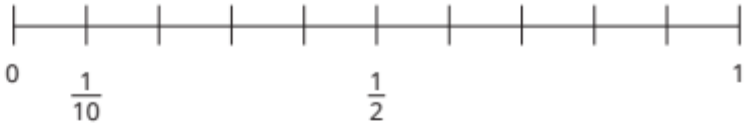
0.2 = ☐

3 Complete the number lines.

a)

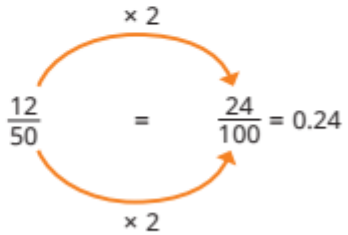


b)



What is the same and what is different about the number lines?

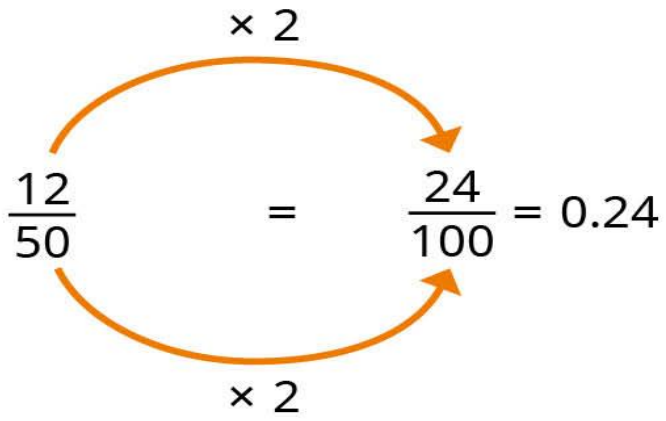
4 To convert a fraction to a decimal, you can use equivalent fractions to make the denominator 100



Use this method to find the equivalent decimals for the fractions.

Triangles and Squares Extension
Hexagon and Octagon- copy example and answer ques

4 To convert a fraction to a decimal, you can use equivalent fractions to make the denominator 100



Use this method to find the equivalent decimals for the fractions.

a) $\frac{28}{50} = \frac{\square}{100} = \square$

b) $\frac{6}{20} = \frac{\square}{100} = \square$

c) $\frac{9}{25} = \frac{\square}{100} = \square$

d) $\frac{24}{200} = \frac{\square}{100} = \square$

e) $\frac{27}{500} = \frac{\square}{1000} = \square$

f) $\frac{62}{250} = \frac{\square}{1000} = \square$

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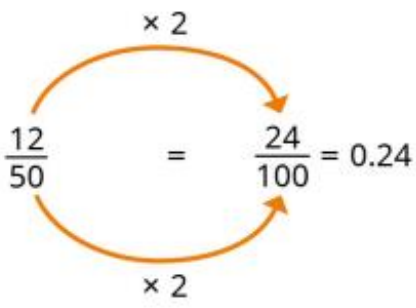
Weds

4 To convert a fraction to a decimal, you can use equivalent fractions to make the denominator 100



Use this method to find the equivalent decimals for the fractions.

a) $\frac{28}{50} = \frac{\square}{100} = \square$

b) $\frac{6}{20} = \frac{\square}{100} = \square$

c) $\frac{9}{25} = \frac{\square}{100} = \square$

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e) $\frac{27}{500} = \frac{\square}{1000} = \square$

f) $\frac{62}{250} = \frac{\square}{1000} = \square$

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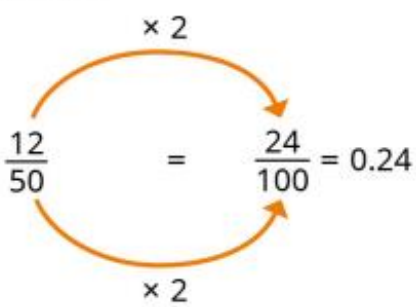
4 To convert a fraction to a decimal, you can use equivalent fractions to make the denominator 100



Use this method to find the equivalent decimals for the fractions.

a) $\frac{28}{50} = \frac{\square}{100} = \square$

b) $\frac{6}{20} = \frac{\square}{100} = \square$

c) $\frac{9}{25} = \frac{\square}{100} = \square$

d) $\frac{24}{200} = \frac{\square}{100} = \square$

e) $\frac{27}{500} = \frac{\square}{1000} = \square$

f) $\frac{62}{250} = \frac{\square}{1000} = \square$

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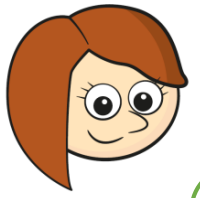


Rosie wants to convert $\frac{2}{5}$ to a decimal.

You need to find an equivalent fraction with 100 as the denominator first!

Guided

$\times 20$

$$\frac{2}{5} = \frac{40}{100}$$

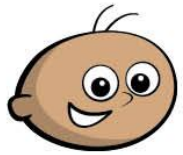
$\times 20$

$\frac{40}{100} = 0.40$

0.4

Hexagon and Octagon-

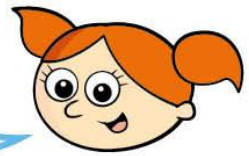
5 Tommy, Alex and Eva are working out the decimal equivalent of $\frac{60}{200}$



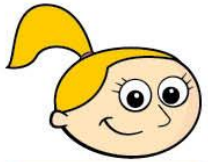
You need to convert the fraction to have a denominator of 100 to find the decimal equivalent.

Tommy

I disagree. You need to convert the fraction to have a denominator of 1,000



Alex



Both of you are correct!

Eva

Who do you agree with? _____

Explain your thinking.

_____

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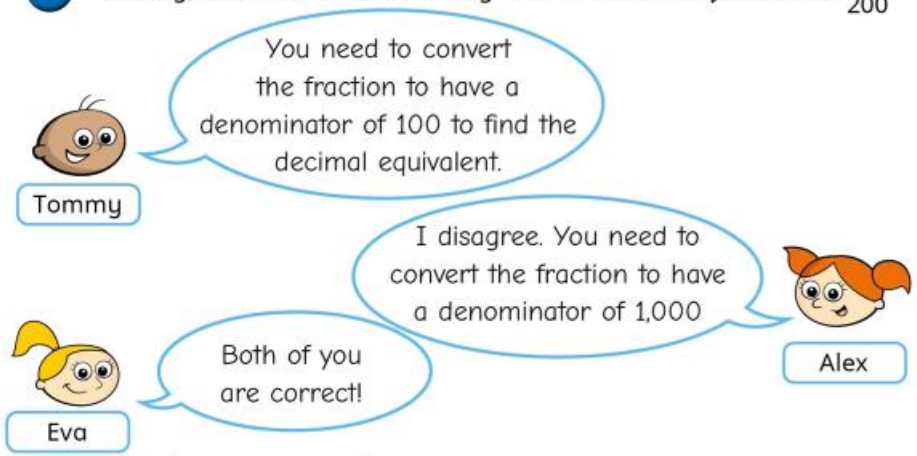
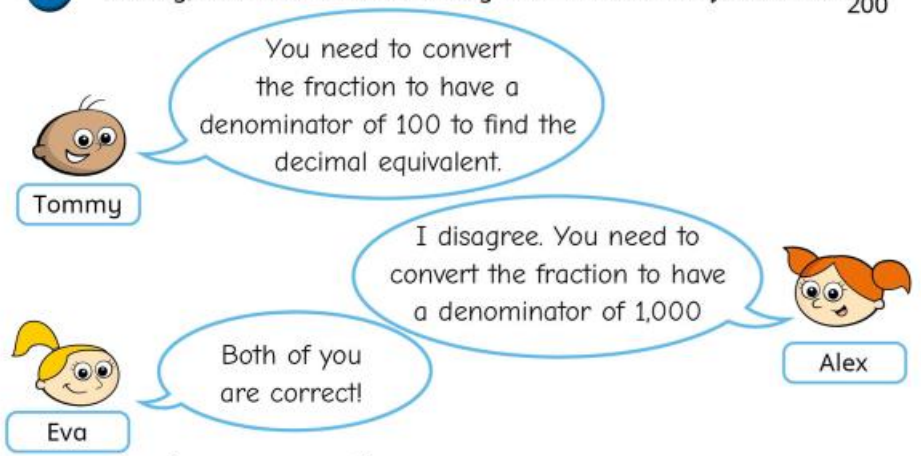
5 Tommy, Alex and Eva are working out the decimal equivalent of $\frac{60}{200}$



Who do you agree with? _____

Explain your thinking.

5 Tommy, Alex and Eva are working out the decimal equivalent of $\frac{60}{200}$

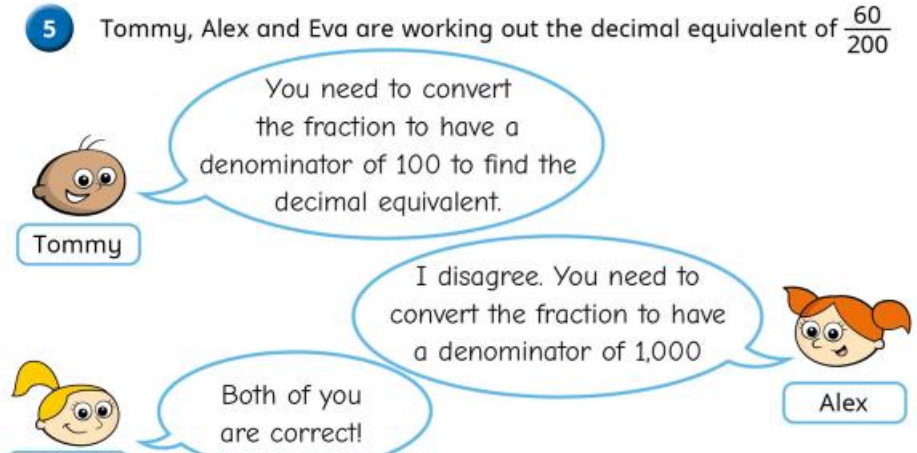


Who do you agree with? _____

Explain your thinking.

Weds

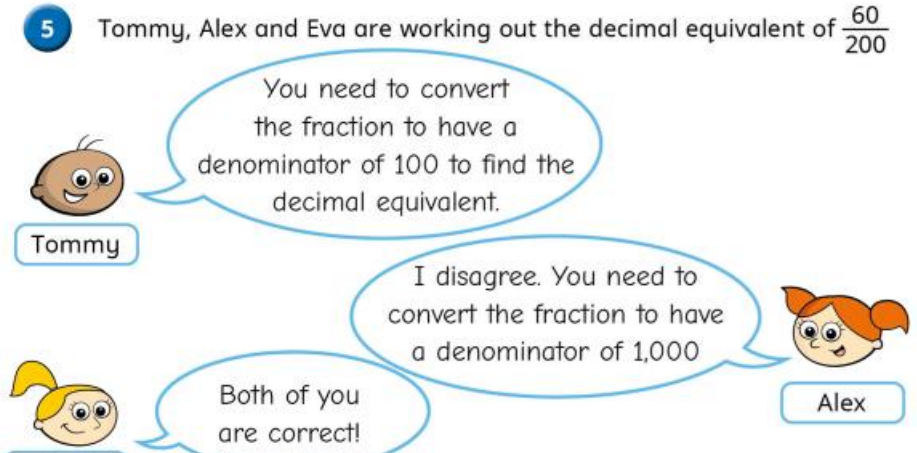
5 Tommy, Alex and Eva are working out the decimal equivalent of $\frac{60}{200}$



Who do you agree with? _____

Explain your thinking.

5 Tommy, Alex and Eva are working out the decimal equivalent of $\frac{60}{200}$



Who do you agree with? _____

Explain your thinking.

Hexagon and Octagon-

Use Tiny's method to find the equivalent decimals for these fractions.

$$\frac{17}{20} \overset{\times 5}{=} \frac{85}{100} = 0.85$$

$$\frac{11}{25} \overset{\times 4}{=} \frac{44}{100} = 0.44$$

Have a think

6

0.5 is equivalent to $\frac{1}{2}$, $\frac{5}{10}$ and $\frac{50}{100}$

Are these the only fractions that are equivalent to 0.5?

How many fractions can you find?

Compare answers with a partner.

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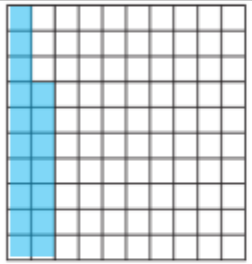
1

a) The whole has been divided into 10 equal parts.
Each part is worth 0.1
This is equivalent to $\frac{1}{10}$

b) The whole has been divided into 100 equal parts.
Each part is worth 0.01
10 parts out of 100 are shaded.
This is equivalent to $\frac{10}{100}$ (or $\frac{1}{10}$)

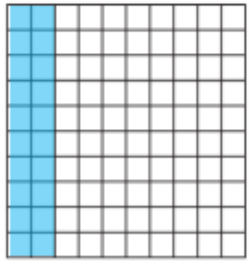
2

a)



17 parts out of 100 are shaded.
$0.17 = \frac{17}{100}$

b)



20 parts out of 100 are shaded.
$0.2 = \frac{1}{5}$

3

a)

b)

Both number lines go up in tenths.
The number line is part a) is labelled with decimals and the number line in part b) is labelled with fractions in their simplest form.

Y6 – Spring – Block 4 – Step 1 – Decimal and fraction equivalents Answers (continued)

Question	Answer
4	a) $\frac{28}{50} = \frac{56}{100} = 0.56$ b) $\frac{6}{20} = \frac{30}{100} = 0.30$ c) $\frac{9}{25} = \frac{36}{100} = 0.36$ d) $\frac{24}{200} = \frac{12}{100} = 0.12$ e) $\frac{27}{500} = \frac{54}{1000} = 0.054$ f) $\frac{62}{250} = \frac{248}{1000} = 0.248$

Question	Answer
4	a) $\frac{28}{50} = \frac{56}{100} = 0.56$ b) $\frac{6}{20} = \frac{30}{100} = 0.30$ c) $\frac{9}{25} = \frac{36}{100} = 0.36$ d) $\frac{24}{200} = \frac{12}{100} = 0.12$ e) $\frac{27}{500} = \frac{54}{1000} = 0.054$ f) $\frac{62}{250} = \frac{248}{1000} = 0.248$
5	Eva Tommy's method: $\frac{60}{200} = \frac{30}{100} = 0.30 = 0.3$ Alex's method: $\frac{60}{200} = \frac{300}{1000} = 0.300 = 0.3$ They get the same answer.
6	multiple possible answers, e.g. $\frac{2}{4}, \frac{10}{20}$ In all the fractions that the children find, the denominator must be twice the numerator.

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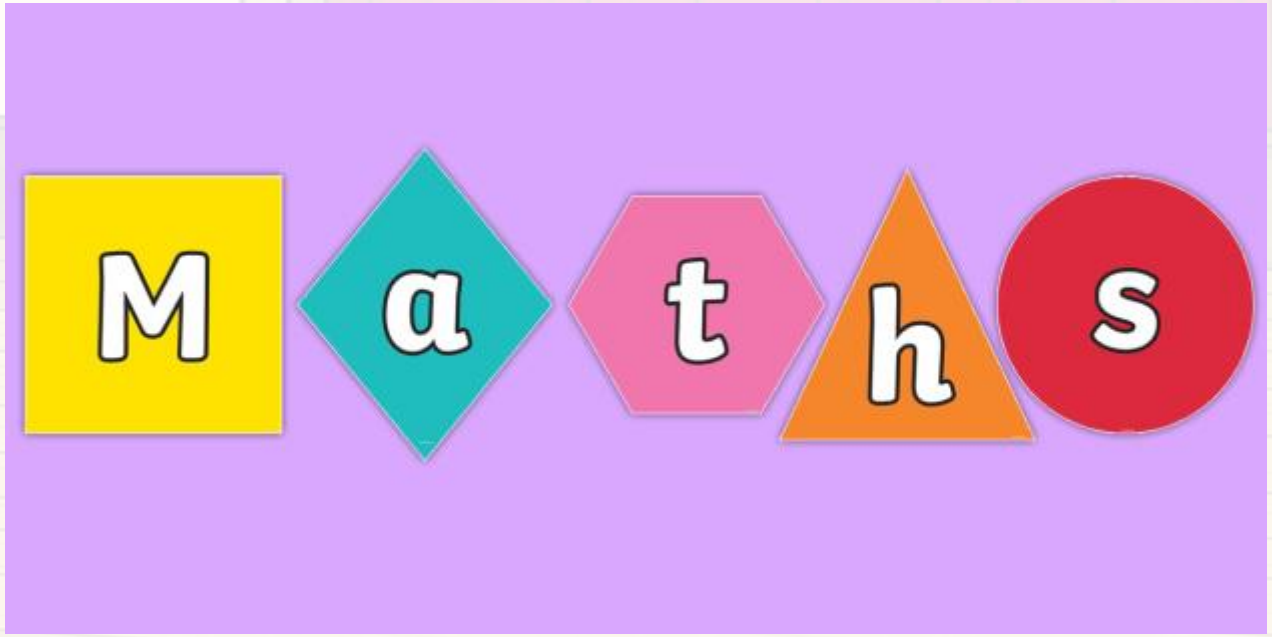
Weds-Maths meeting

Multiplying fractions



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https://www.bbc.co.uk/bitesize/topics/zhdwxnb/articles/z8fyv4j

1. Work out

$$\frac{1}{2} \times \frac{3}{5}$$

2. Work out

$$\frac{7}{8} \times \frac{3}{4}$$

3. Work out

$$\frac{4}{5} \times \frac{9}{10}$$

Give your answer as a fraction in its simplest form.

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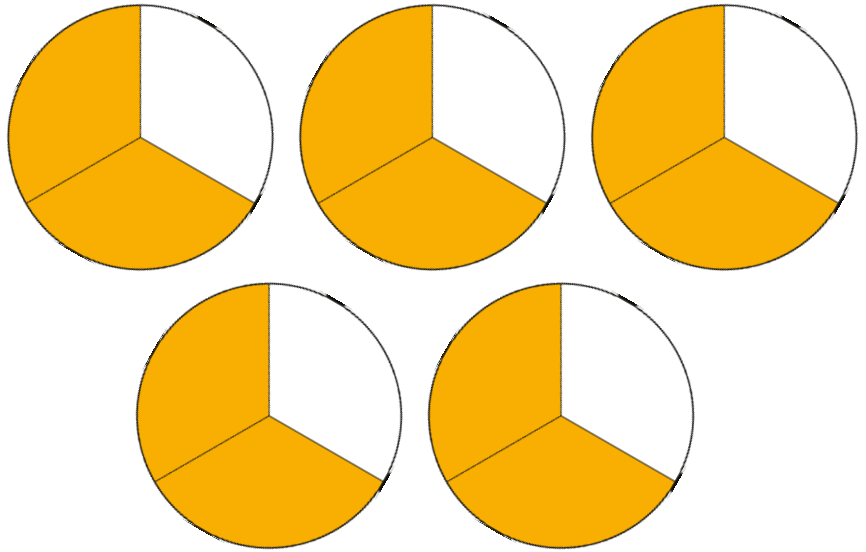
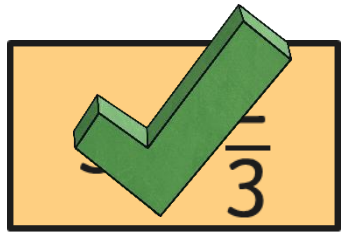
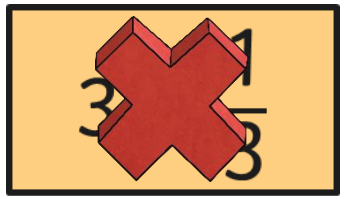
Fraction Model Match-Up

Choose the expression that correctly describes the coloured parts of this fraction model:







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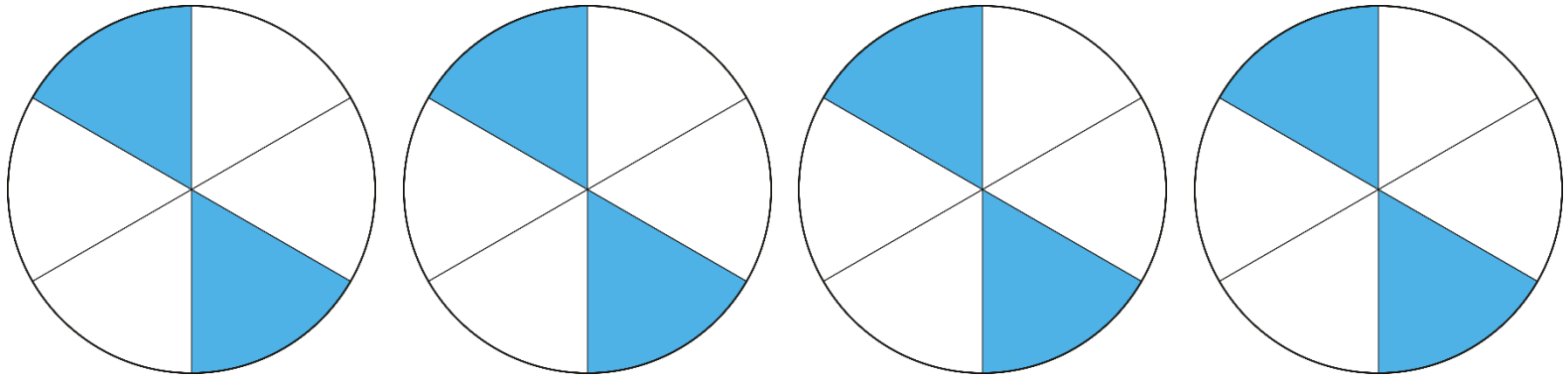
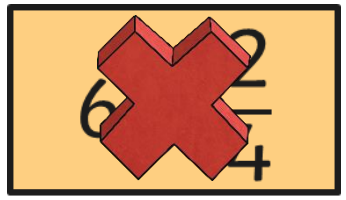
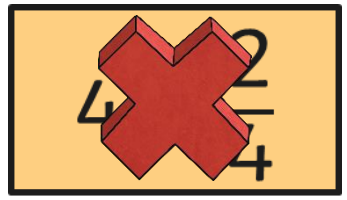
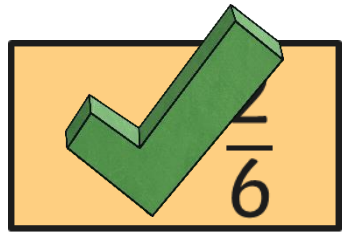
Fraction Model Match-Up

Choose the expression that correctly describes the coloured parts of this fraction model:









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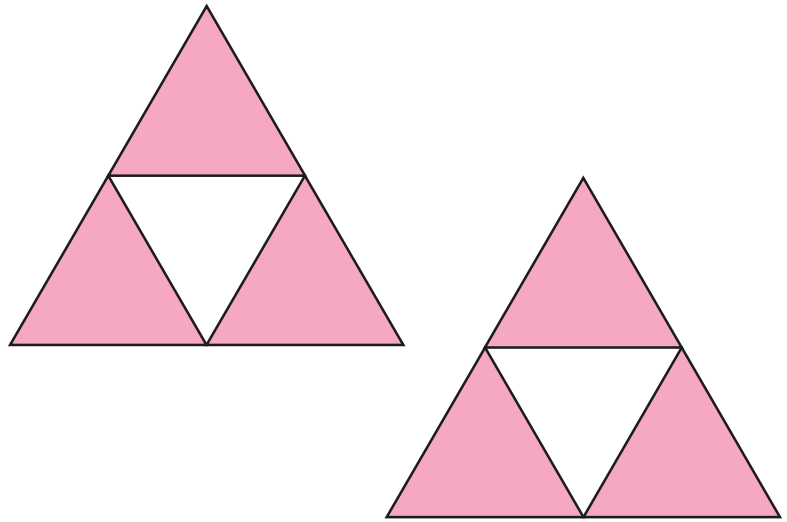
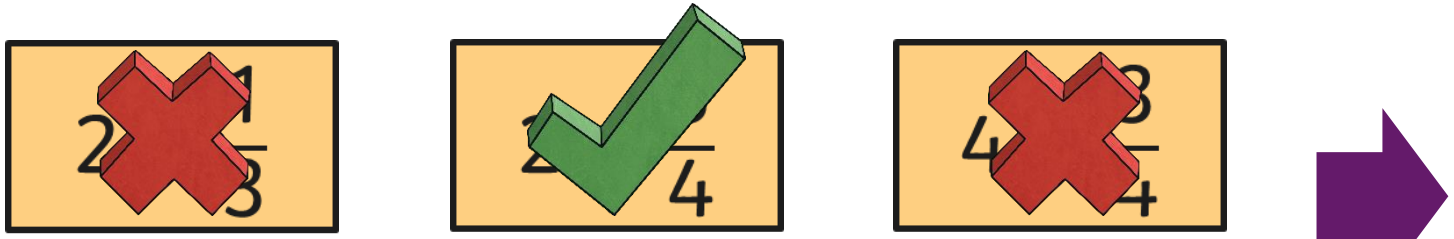
Fraction Model Match-Up

Choose the expression that correctly describes the coloured parts of this fraction model:





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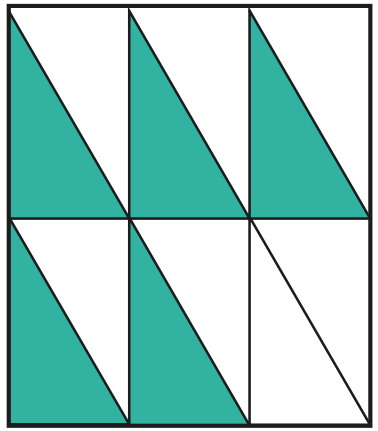
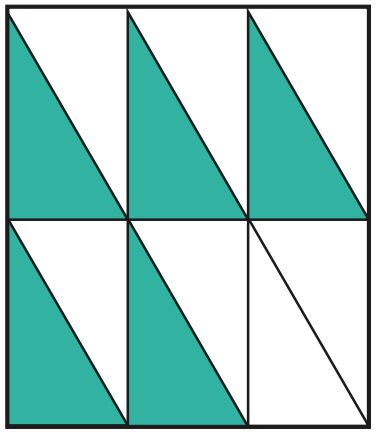
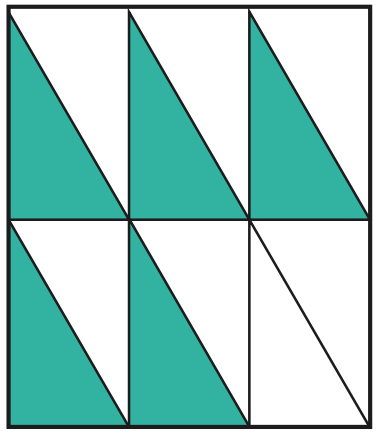
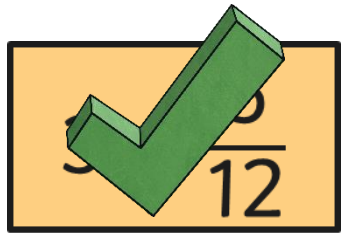
Fraction Model Match-Up

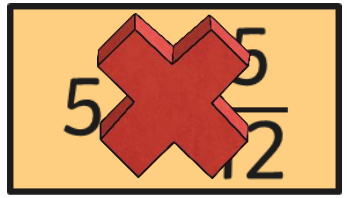
Choose the expression that correctly describes the coloured parts of this fraction model:











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Fraction Model Match-Up

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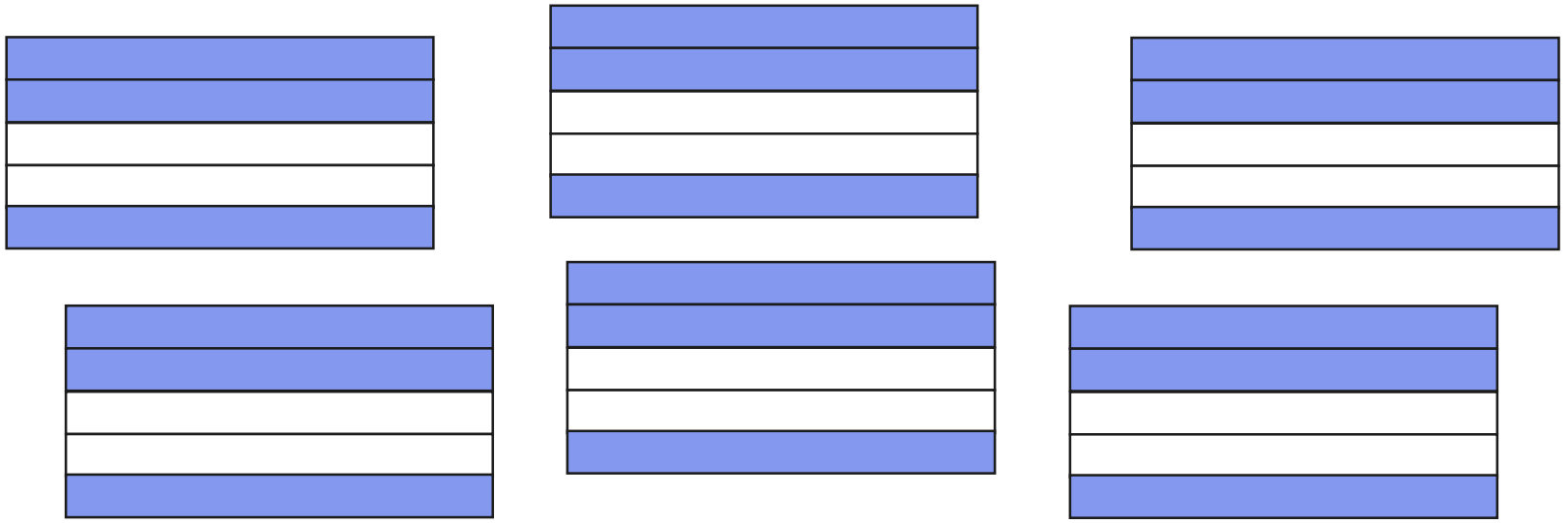

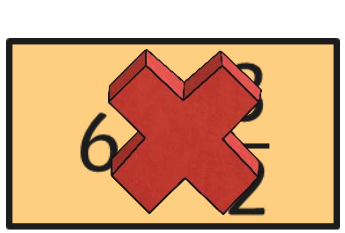

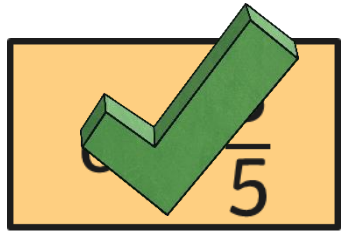

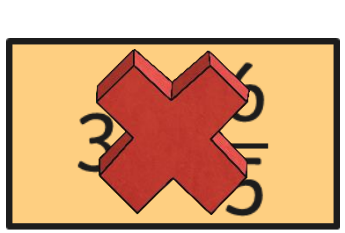

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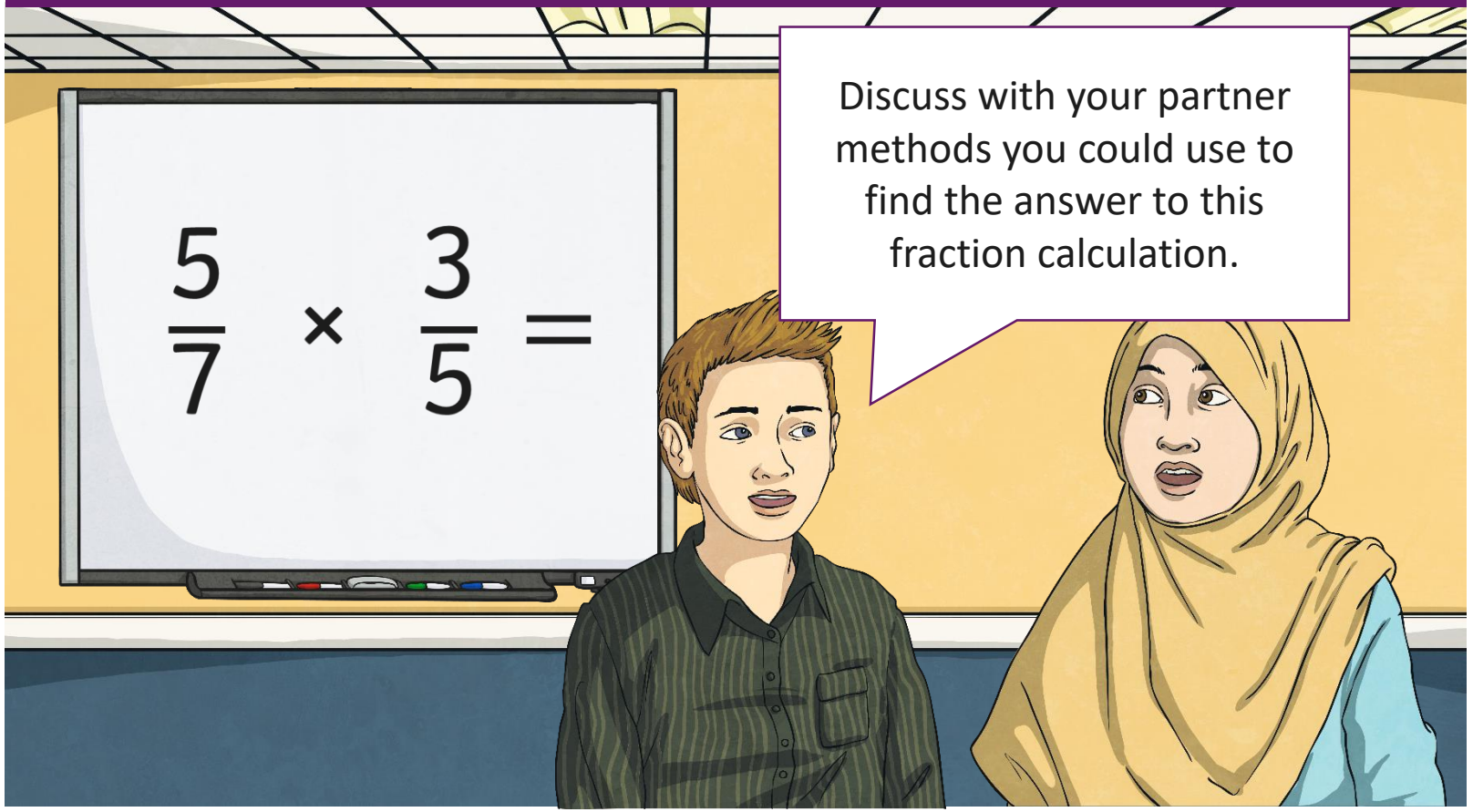
Multiplying Proper Fractions

Look at this fraction calculation:



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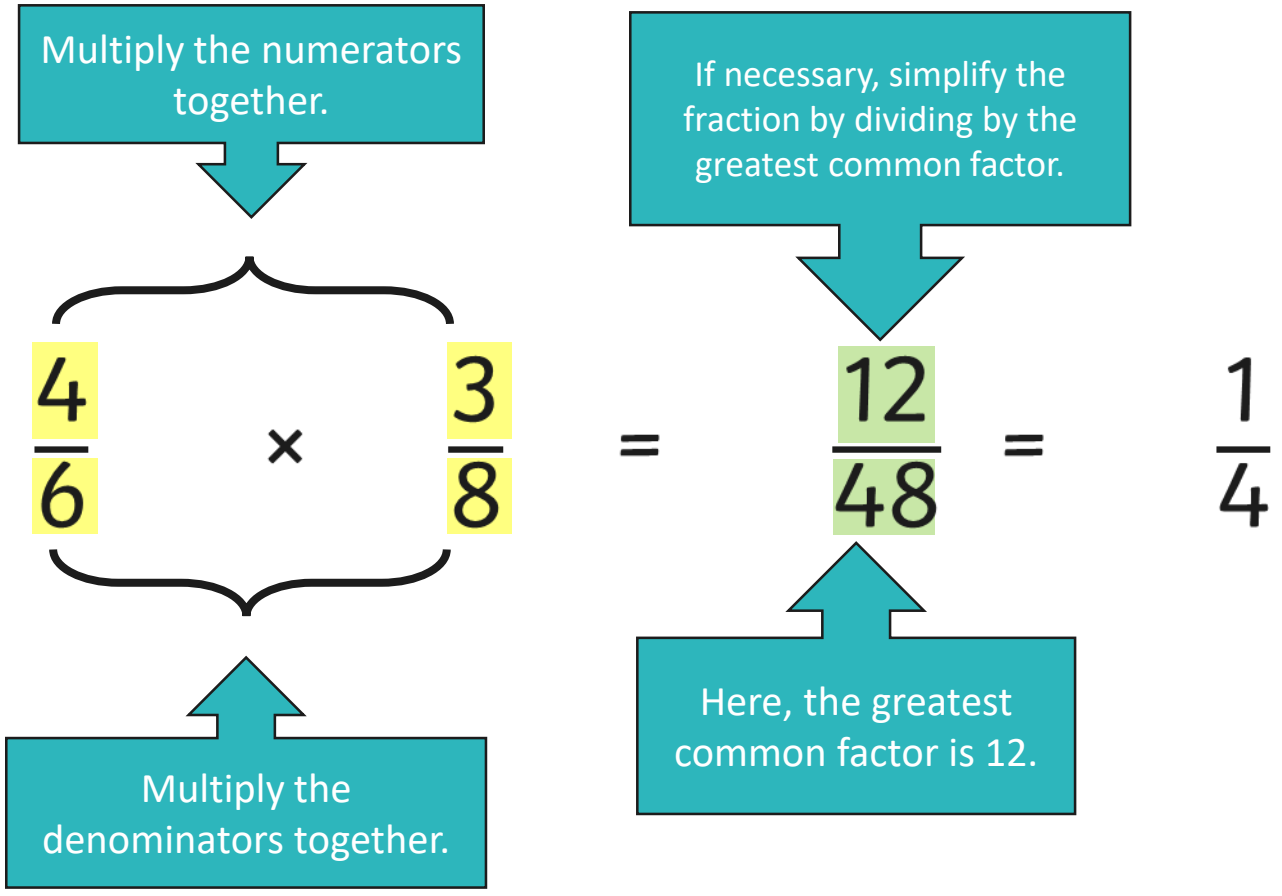
Multiplying Proper Fractions

Method

Multiplying Proper Fractions



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Multiplying Proper Fractions

Whole Class

Method 3

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12. Work out

$$1\frac{1}{3} \times 2\frac{2}{5}$$

Give your answer as a mixed number.

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16. Aled feeds his pet cat $\frac{3}{5}$ of a can of cat food each day.

How many cans of cat food should Aled buy each week?

https://corbettmaths.com/wp-content/uploads/2022/10/Multiplying-Dividing-Fractions-Answers.pdf

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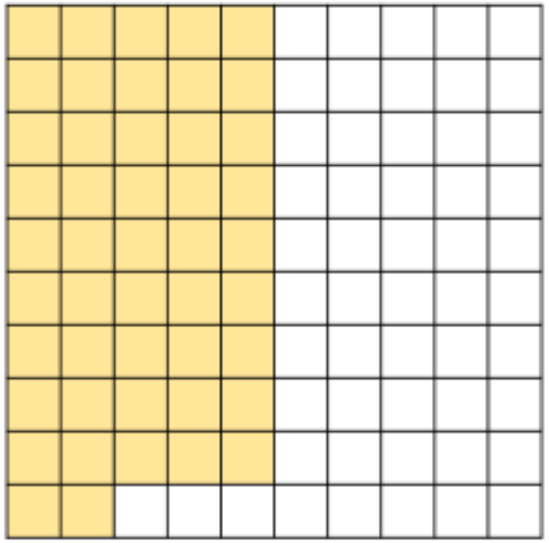
Thurs 26.1.23

LO: To find fractions as division

1) What part of the hundred square is shaded?
Write your answer as a fraction.



2) Write 0.46 as a fraction in its simplest form.

3) Convert $\frac{3}{20}$ to a decimal.

IN BOOKS

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1) What part of the hundred square is shaded?
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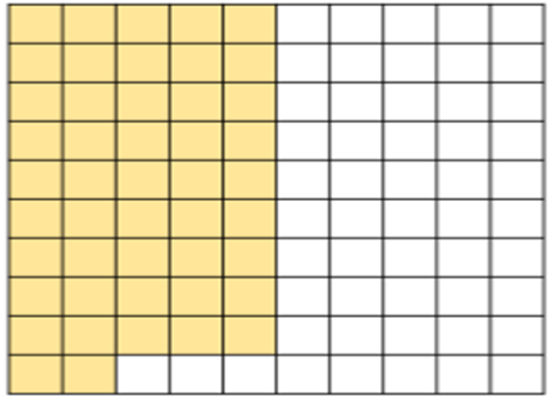

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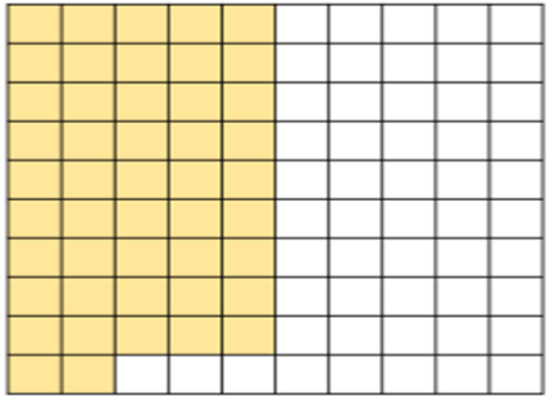

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Thurs

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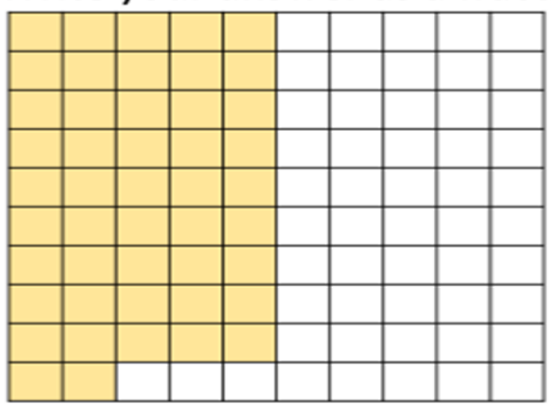

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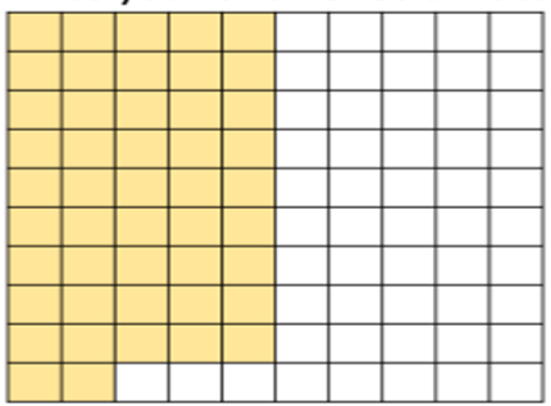

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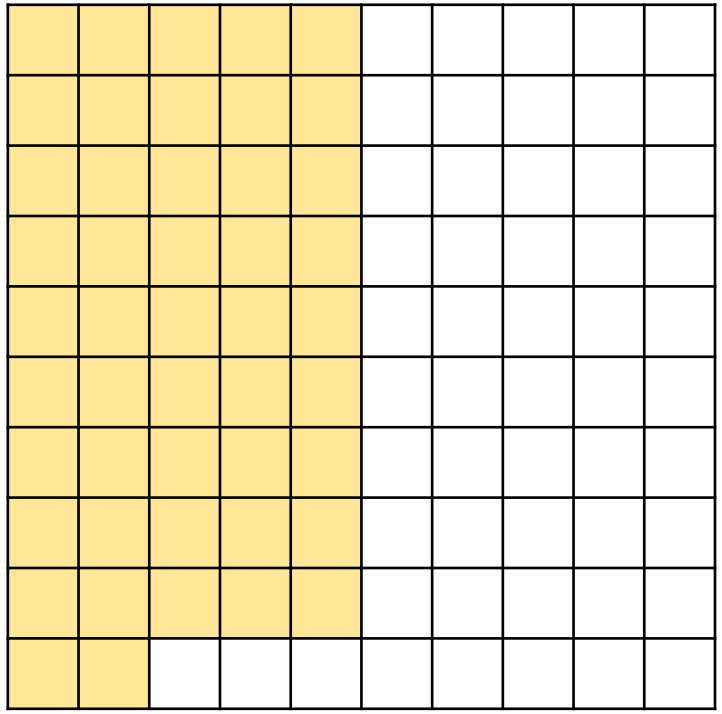
1) What part of the hundred square is shaded?
Write your answer as a fraction.



$\frac{47}{100}$

2) Write 0.46 as a fraction in its simplest form. $\frac{46}{100} = \frac{23}{50}$

3) Convert $\frac{3}{20}$ to a decimal. $\frac{3}{20} = \frac{15}{100}$ 0.15

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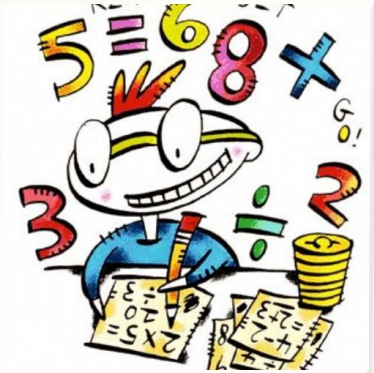
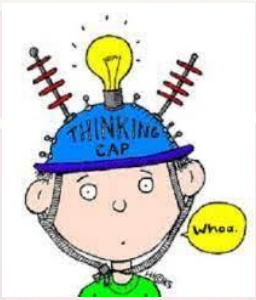


Maths Three Repeating Golden Threads



Fluency

Quick and. efficient recall of facts and procedures

Mastery

Pupils acquire a deep, long-term, secure adaptable understanding

Application

The use of maths everyday in the real world, outside the classroom.

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Term Spring 1 **Week beginning** 23/1/23

Block Fractions, Decimals and Percentages

Key vocabulary order discount calculation divide multiply round lowest common multiple mixed numeral unit fraction simplify compare equivalent convert denominator numerator thousandths hundredths tenths improper fraction proper fraction common fraction

	B	W	S
Decimal and fraction equivalents			
Fractions as division			
Understand percentages			
Fractions to percentages			
Equivalent fractions, decimals and percentages			
Order fractions, decimals and percentages			
Percentage of an amount – one step			
Percentage of an amount – multi-step			
Percentages- missing values			

Stem sentences

- The first/second digit after a decimal point represents
- To find an equivalent fraction, I need to or the and the by the same number.
- The fraction can be expressed as ÷
- ÷ is the same as the fraction
- If the whole is shared into 100/10/5/4/2 equal parts, each part represents %.
- If parts are shaded, the percentage shown is %
- . • Things to look out for To find %, I can halve %

Guided

Fractions can be expressed as divisions.

$$\frac{1}{6} = 1 \div 6$$

Write each fraction as a division.

$\frac{1}{5}$

$1 \div 5$

$\frac{7}{9}$

$7 \div 9$

$\frac{112}{137}$

$112 \div 137$

Have a think

Fractions can be expressed as divisions.

$$1 \div 6$$

Write each division as a fraction.

$2 \div 3$

$\frac{2}{3}$

$5 \div 8$

$\frac{5}{8}$

$24 \div 35$

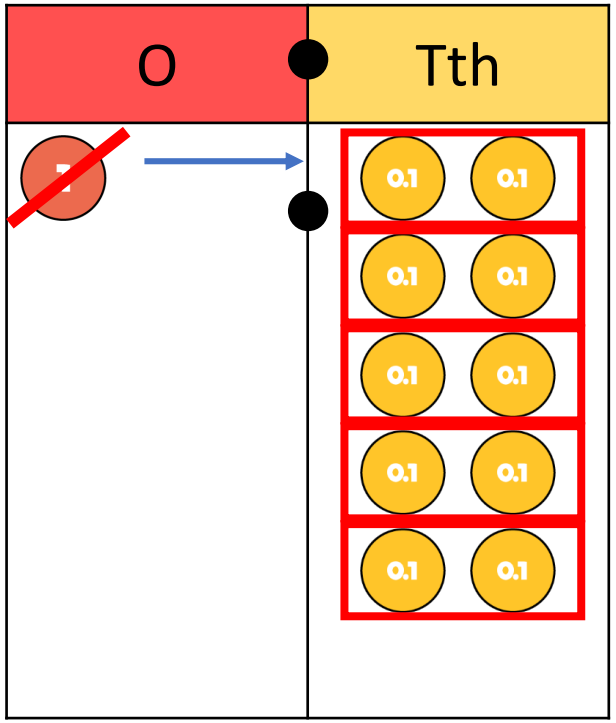
$\frac{24}{35}$

Have a think

Guided

Ron is using place value counters to convert $\frac{1}{2}$ to a decimal by dividing.

$\frac{1}{2} = 1 \div 2$

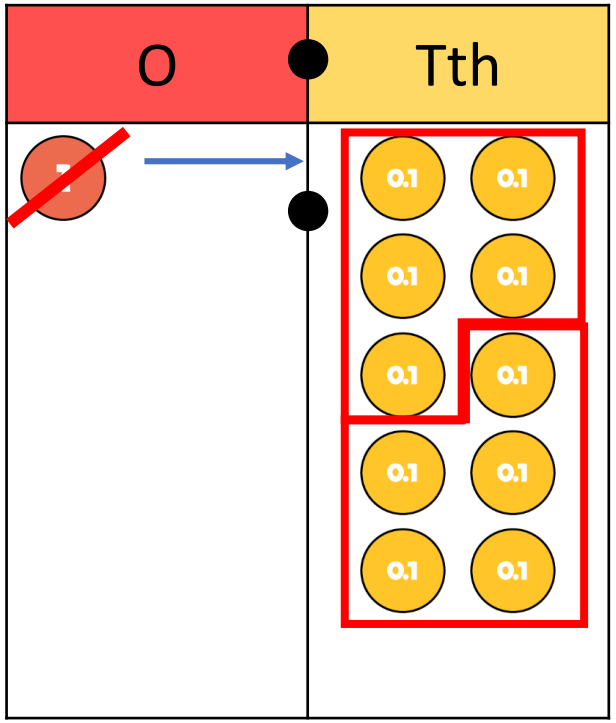


	0 · 5		
2	1 · ^{1}0		

$\frac{1}{2} = 0.5$

Use this method to find the decimal equivalence of $\frac{1}{5}$

$\frac{1}{5} = 1 \div 5$



$$\begin{array}{r} 0.2 \\ 5\overline{)1.^{1}0} \end{array}$$

$\frac{1}{5} = 0.2$

Have a think

Convert $\frac{1}{8}$ to a decimal.

$$\frac{1}{8} = 1 \div 8$$

$$\begin{array}{r|l} & 0.125 \\ \hline 8 & 1.^{1}0^{2}0^{4}0 \end{array}$$

$$\frac{1}{8} = 0.125$$

Convert $\frac{4}{5}$ to a decimal.

$$\frac{4}{5} = 4 \div 5$$

$$\begin{array}{r} 0.8 \\ 5\overline{)4.40} \end{array}$$

$$\frac{4}{5} = 0.8$$

Have a think

Your turn

1 Fractions can be expressed as divisions.

For example, $\frac{1}{2} = 1 \div 2$

Write the fractions as divisions.

a) $\frac{1}{3} = \square \div \square$

b) $\frac{2}{3} = \square \div \square$

c) $\frac{4}{7} = \square \div \square$

d) $\frac{\square}{\square} = 3 \div 5$

e) $\frac{\square}{7} = 3 \div \square$

f) $\frac{1}{10} = \square \div \square$

2 Use place value counters to find the decimal equivalent of $\frac{2}{5}$

You can draw on the place value chart to help you with exchanging.

$\frac{2}{5} = 2 \div 5 = \square$

Ones	Tenths
1 1	

3 Fractions can be converted to decimals by using the short division method.

For example, $\frac{1}{8} = 1 \div 8$

		0	.	1	2	5
	8	1	.	$^{1}0$	$^{2}0$	$^{4}0$

$\frac{1}{8} = 0.125$

Use the short division method to find the decimal equivalents of the fractions.

a) $\frac{1}{4}$

			.			
	4	1	.	0	0	

b) $\frac{4}{5}$

			.			
	5	4	.	0		

c) $\frac{3}{8}$

			.			
	8	3	.	0		

4 Find the decimal equivalents for the fractions.

a) $\frac{7}{8}$ b) $\frac{7}{5}$ c) $\frac{1}{16}$ d) $\frac{9}{16}$

Fractions as division

1 Fractions can be expressed as divisions.

For example, $\frac{1}{2} = 1 \div 2$

Write the fractions as divisions.

a) $\frac{1}{3} = \square \div \square$

b) $\frac{2}{3} = \square \div \square$

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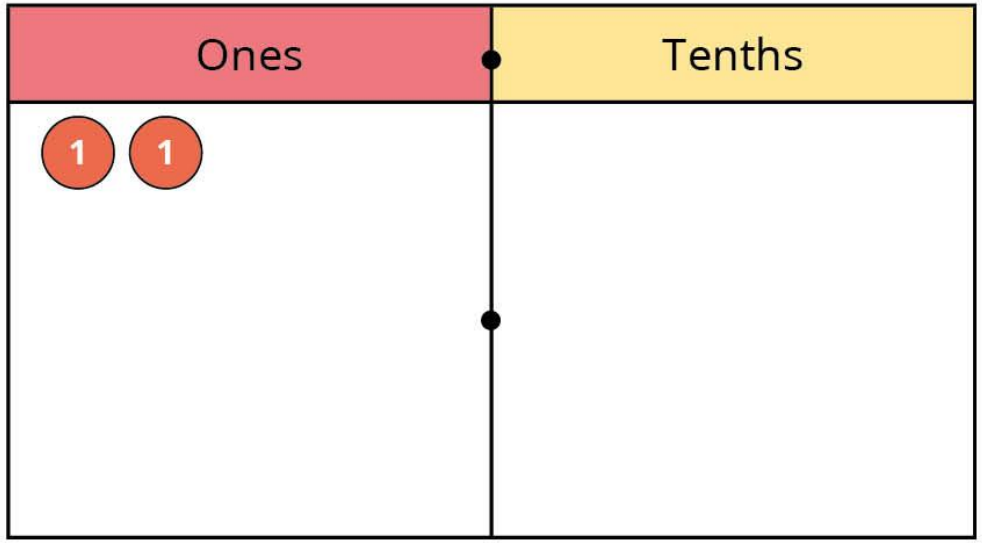
2 Use place value counters to find the decimal equivalent of $\frac{2}{5}$

You can draw on the place value chart to help you with exchanging.

$\frac{2}{5} = 2 \div 5 =$ ☐



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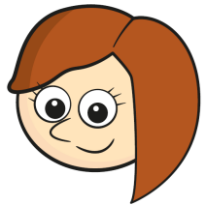
Teddy, Rosie and Jack have each found the decimal equivalent of $\frac{7}{8}$

$\frac{7}{8} = 7 \div 8$

$$\begin{array}{r} 0.875 \\ 8\overline{)\,7.^{7}0\,^{6}0\,^{4}0} \end{array}$$

$\frac{7}{8} = 0.875$

$\frac{1}{8} = 1 \div 8$



$$\begin{array}{r} 0.125 \\ 8\overline{)\,1.^{1}0\,^{2}0\,^{4}0} \end{array}$$

$\frac{1}{8} = 0.125$

$\frac{7}{8} = 7 \times 0.125$

$\frac{7}{8} = 0.875$

3 Fractions can be converted to decimals by using the short division method.

For example, $\frac{1}{8} = 1 \div 8$

		0 · 1	2	5		
	8	1 · ^{1}0	^{2}0	^{4}0		

$\frac{1}{8} = 0.125$

Use the short division method to find the decimal equivalents of the fractions.

a)

		·			
	4	1 · 0	0		

$\frac{1}{4} =$ ☐

3 **b)**

		·			
	5	4 · 0			

$\frac{4}{5} =$ ☐

c)

		·			
	8	3 · 0			

$\frac{3}{8} =$ ☐

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Hexagon and Octagon- copy

4 Find the decimal equivalents for the fractions.

a) $\frac{7}{8}$ = ☐

c) $\frac{1}{16}$ = ☐

b) $\frac{7}{5}$ = ☐

d) $\frac{9}{16}$ = ☐

Hexagon and Octagon- copy

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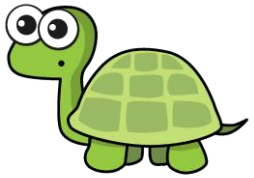
Tiny is using the short division method to find the decimal equivalent of $\frac{3}{5}$



$$
\begin{array}{r|l}
 & 1 \cdot 6\ 6\ \ldots \\
\hline
3 & 5 \cdot {}^{2}0\ {}^{2}0\ \ldots
\end{array}
$$

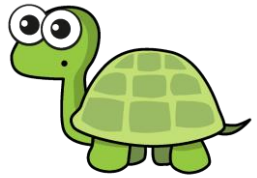
$\frac{3}{5} = 1.66\ldots$

Explain the mistake Tiny has made.

Guided

Have a think

Tiny is using the short division method to find the decimal equivalent of $\frac{3}{5}$



$$\begin{array}{r|l} & 1 \cdot 6 \; 6 \ldots \\ \hline 3 & 5 \cdot {}^{2}0 \; {}^{2}0 \ldots \end{array}$$

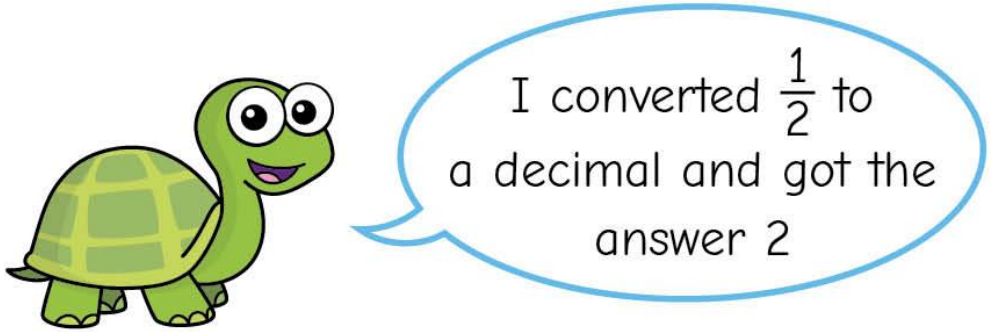
$\frac{3}{5} = 3 \div 5$

Tiny calculated $5 \div 3$

$$\begin{array}{r|l} & 0 \cdot 6 \\ \hline 5 & 3 \cdot {}^{3}0 \end{array}$$

$\frac{3}{5} = 0.6$

6



Tiny is incorrect.

Explain the mistake that Tiny has made.

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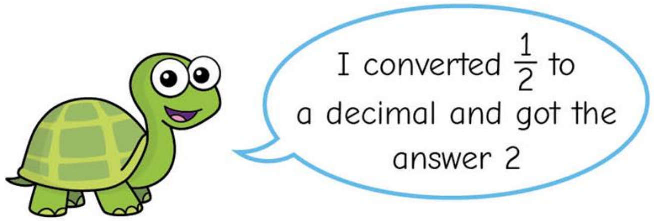
6



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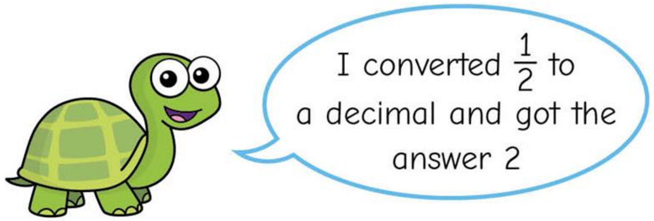
6

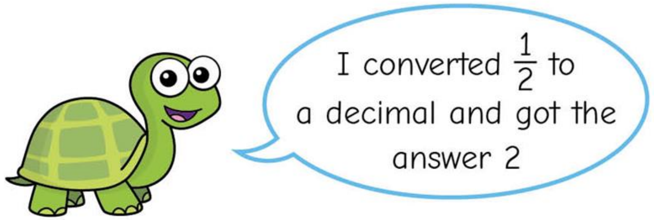


Tiny is incorrect.

Explain the mistake that Tiny has made.

Thurs

6



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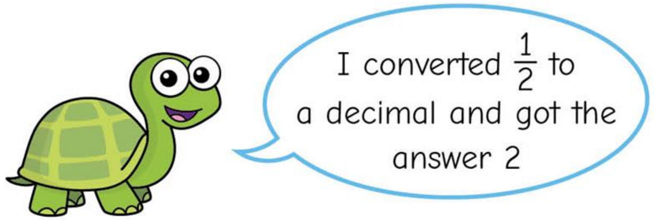
Explain the mistake that Tiny has made.

6



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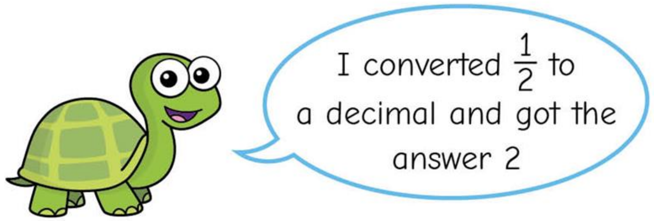

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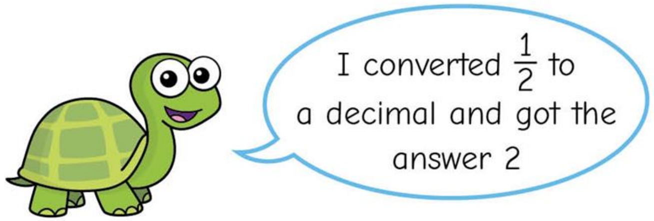
Explain the mistake that Tiny has made.

6



Tiny is incorrect.

Explain the mistake that Tiny has made.

Extension

7 Max is thinking of a fraction.

When he converts it to a decimal, it is less than 0.5 but greater than 0.4

What fraction could Max be thinking of?

Are there any other possible answers?
Talk to a partner.

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Use division to find the decimal equivalent of $\frac{2}{3}$

$$\begin{array}{r|l} & 0.66 \\ \hline 3 & 2.^{2}0^{2}0^{2}0 \end{array}$$

What do you notice?

$$\frac{2}{3} = 0.\dot{6}$$

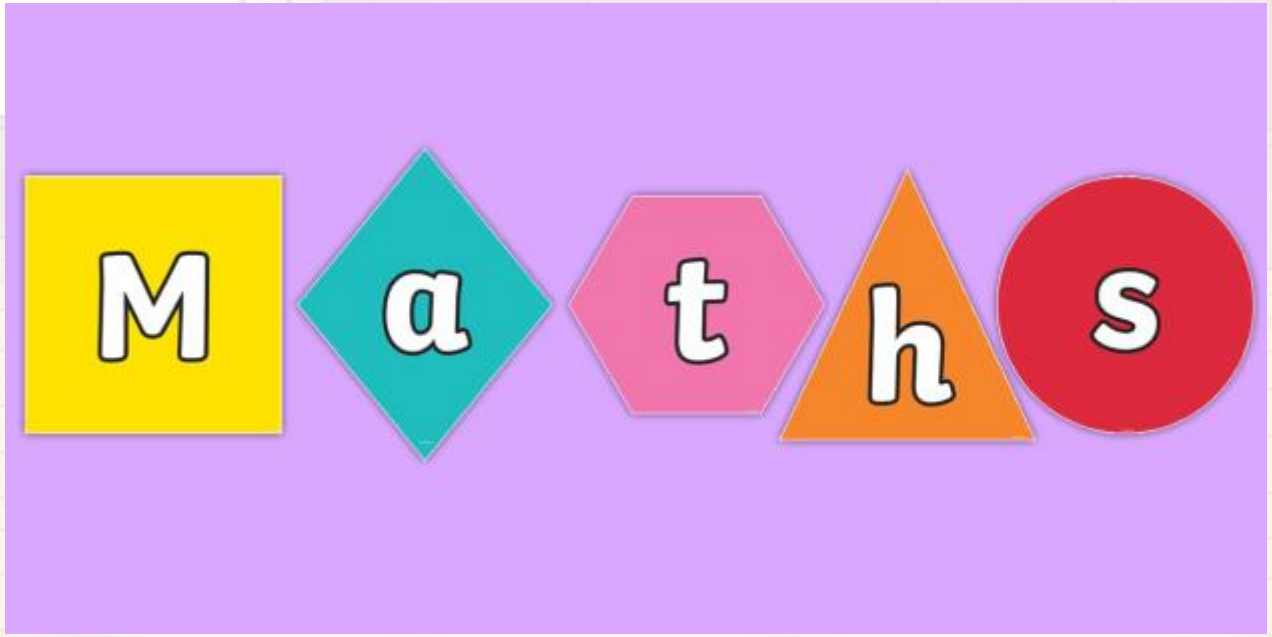
$\frac{2}{3}$ gives a recurring decimal answer.

Have a think

Question	Answer
1	a) $\frac{1}{3} = 1 \div 3$ b) $\frac{2}{3} = 2 \div 3$ c) $\frac{4}{7} = 4 \div 7$ d) $\frac{3}{5} = 3 \div 5$ e) $\frac{3}{7} = 3 \div 7$ f) $\frac{1}{10} = 1 \div 10$
2	0.4
3	a) 0.25 b) 0.8 c) 0.375
4	a) 0.875 b) 1.4 c) 0.0625 d) 0.5625
5	0.98
6	Tiny worked out 2 ÷ 1 instead of 1 ÷ 2 The correct answer is 0.5
7	multiple possible answers, e.g. $\frac{9}{20}$ $\frac{41}{100}$ $\frac{21}{50}$ There is an infinite number of possible answers.

Thurs-Maths meeting

Dividing fractions



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Dividing Fractions

$$\frac{2}{5} \div \frac{2}{3} \rightarrow \frac{2}{5} \times \frac{3}{2}$$

Invert the second fraction - you can now multiply these fractions to solve the problem.

Multiply the numerators. Multiply the denominators.

$$\frac{2}{5} \times \frac{3}{2} = \frac{6}{10}$$

Fractions

Division by whole numbers

The Problem:

$$\frac{2}{3} \div 2$$

Step 1

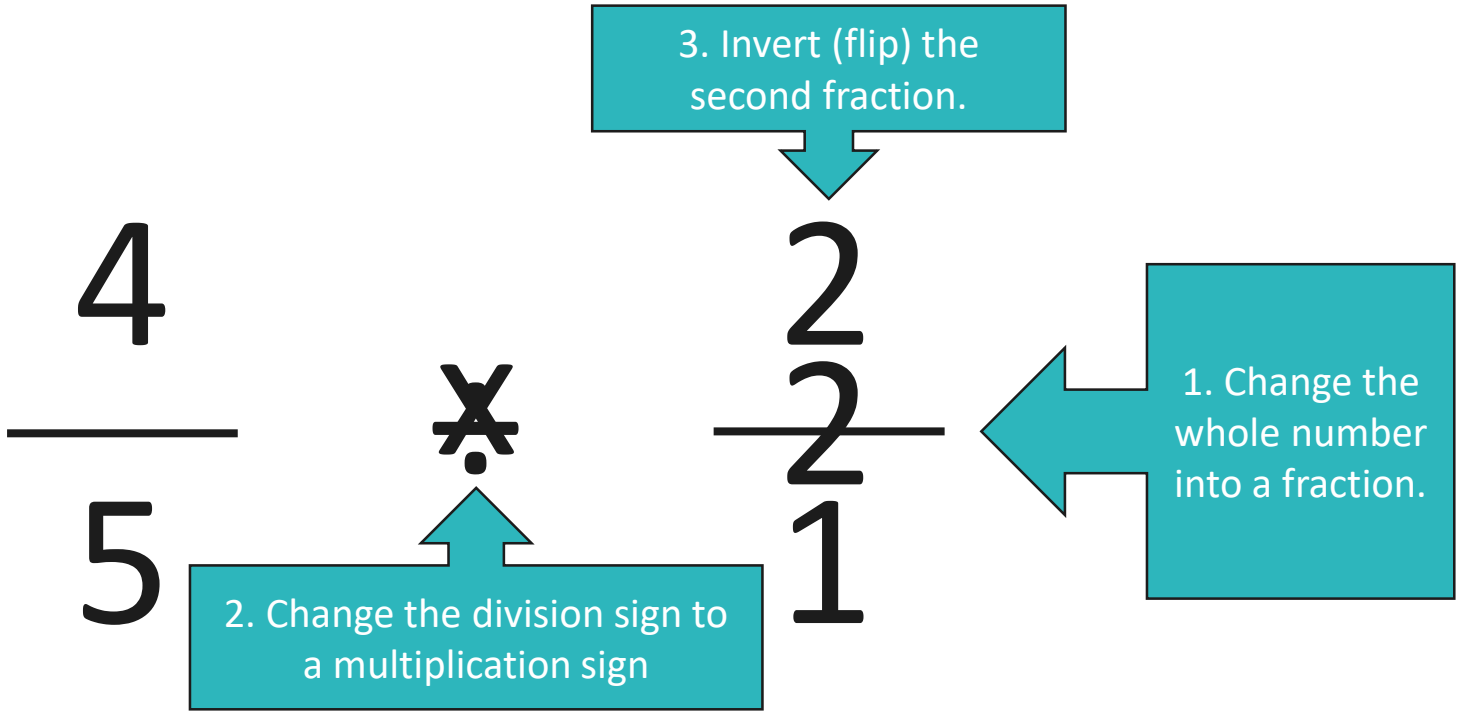
$$\frac{2}{3 \times 2} = \frac{2}{6}$$

Multiply the denominator by the whole number.

Dividing Proper Fractions

We know that division and multiplication are inverse operations.

To divide fractions we use the inverse operation of multiplication following these rules:



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Dividing Proper Fractions

Now we can multiply the proper fractions:

4. Multiply the numerators together.

6. If necessary, simplify the answer by dividing by the greatest common factor.

$$\frac{4}{5} \times \frac{1}{2} = \frac{4}{10} = \frac{2}{5}$$

5. Multiply the denominators together.

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Method

Look at the steps we did to calculate $\frac{4}{5} \div 2 = \frac{2}{5}$

1	Change the whole number into a fraction.	$\frac{4}{5} \div \frac{2}{1}$
2	Change the division sign to a multiplication sign.	$\frac{4}{5} \times \frac{2}{1}$
3	Invert (flip) the second fraction.	$\frac{4}{5} \times \frac{1}{2}$
4	Multiply the numerators together.	$\frac{4}{5} \times \frac{1}{2} = \frac{4}{\_}$
5	Multiply the denominators together.	$\frac{4}{5} \times \frac{1}{2} = \frac{4}{10}$
6	If necessary, simplify the answer by dividing by the greatest common factor.	$\frac{4}{10} = \frac{2}{5}$

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Method

Use the steps to calculate $\frac{3}{5} \div 4 =$

1	Change the whole number into a fraction.	$\frac{3}{5} \div \frac{4}{1}$
2	Change the division sign to a multiplication sign.	$\frac{3}{5} \times \frac{4}{1}$
3	Invert (flip) the second fraction.	$\frac{3}{5} \times \frac{1}{4}$
4	Multiply the numerators together.	$\frac{3}{5} \times \frac{1}{4} = \frac{3}{\ }$
5	Multiply the denominators together.	$\frac{3}{5} \times \frac{1}{4} = \frac{3}{20}$
6	If necessary, simplify the answer by dividing by the greatest common factor.	$\frac{3}{20}$

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Reveal the Picture

How to Play:
You will need to use what you have learnt about dividing a proper fraction by a whole number to answer the questions.

Think carefully about the question, and share your answer. If you get it correct, click on the box once to check your answer, and then again to reveal a part of the picture!

The more you get correct, the more of the picture you will see!

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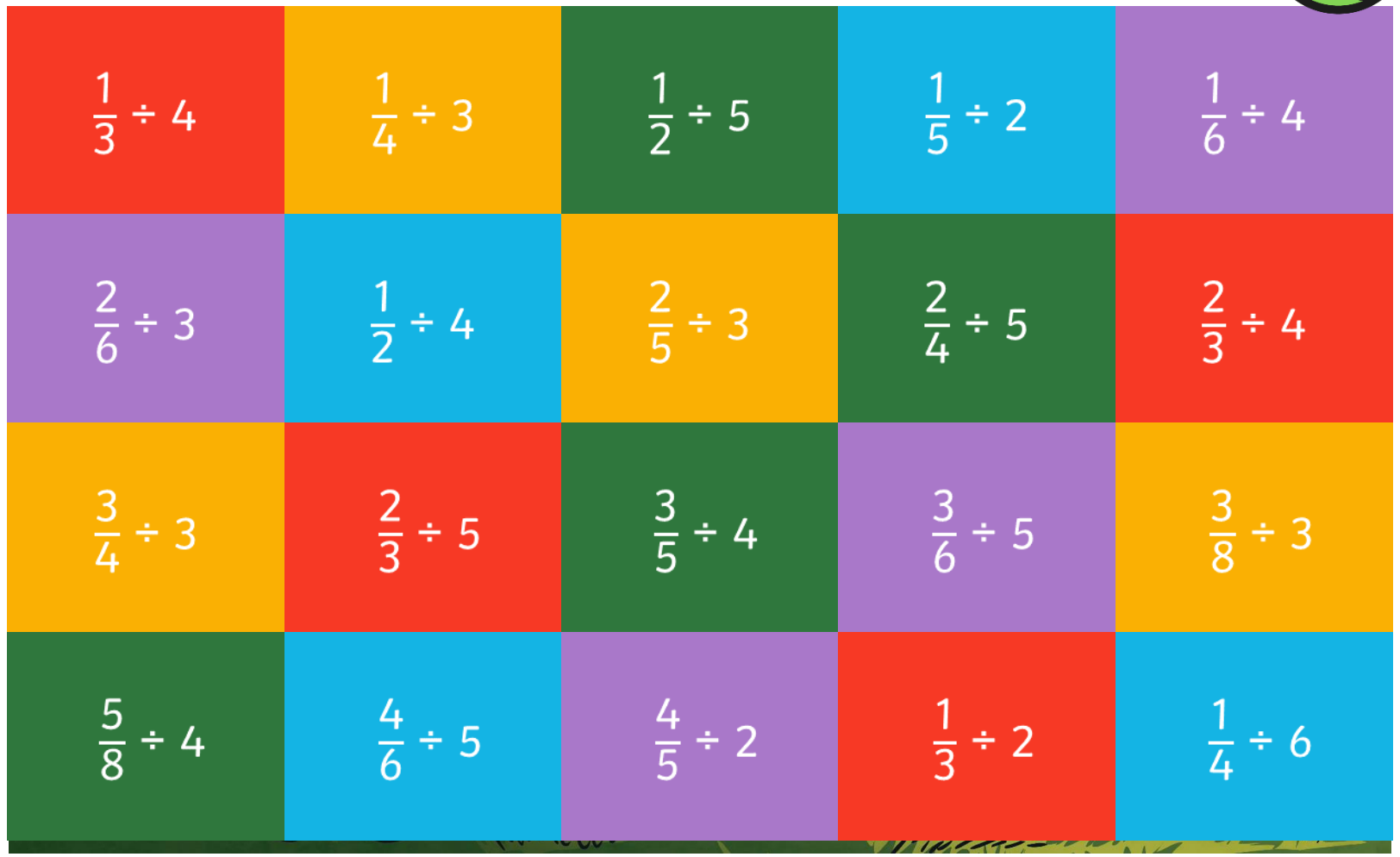
Reveal the Picture



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Dividing Fractions

I can multiply simple pairs of proper fractions, writing the answer in its simplest form.

Calculate the answer, show your working out.

1. $\frac{4}{5} \div 6$	2. $\frac{6}{8} \div 5$
3. $\frac{9}{21} \div 3$	4. $\frac{16}{24} \div 10$

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