Monday 25th January

Four rules with fractions.

Watch the video link and answer the following questions

https://vimeo.com/480708159
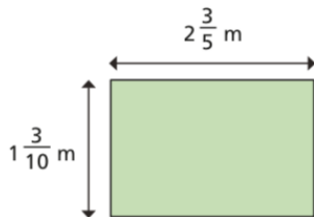
Four rules with fractions

1 Work out the missing total.

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

Show all the steps in your working.

Explain your method to a partner.

2 Work out the perimeter of the rectangle.

$2\frac{3}{5}$ m

$1\frac{3}{10}$ m

Explain your method to your partner.

Did you work it out in the same way?

3 Complete the calculations.

a) $\left(\frac{2}{3} + \frac{2}{3}\right) \times 3 =$ [ ]

b) $\left(\frac{2}{3} + \frac{2}{3}\right) \div 3 =$ [ ]

c) $\frac{2}{3} + \frac{2}{3} \times 3 =$ [ ]

d) $\frac{2}{3} + \frac{2}{3} \div 3 =$ [ ]

4 Jack mixes $\frac{2}{3}$ of a litre of orange juice and $\frac{3}{4}$ of a litre of apple juice.

He pours the juice into 5 glasses equally.

How much juice is in each glass?

The Answers Are On The Next Slide .....

no peeking

elyxandra

Rose Maths

1 Work out the missing total.

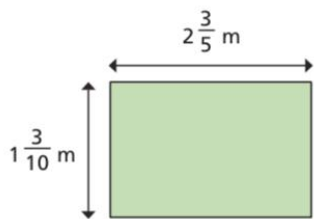| $\frac{2}{3}$	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{2}{3}$	$2\frac{1}{3}$
5				

Show all the steps in your working.

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

$\frac{2}{3} + 2\frac{1}{3} = 3$ $2 + 3 = 5$

Explain your method to a partner.

2 Work out the perimeter of the rectangle.

$2\frac{3}{5}$ m

$1\frac{3}{10}$ m

$7\frac{4}{5}$ m

Explain your method to your partner.

Did you work it out in the same way?

3 Complete the calculations.

a) $\left(\frac{2}{3} + \frac{2}{3}\right) \times 3 =$ 4

b) $\left(\frac{2}{3} + \frac{2}{3}\right) \div 3 =$ $\frac{4}{9}$

c) $\frac{2}{3} + \frac{2}{3} \times 3 =$ $2\frac{2}{3}$

d) $\frac{2}{3} + \frac{2}{3} \div 3 =$ $\frac{8}{9}$

4 Jack mixes $\frac{2}{3}$ of a litre of orange juice and $\frac{3}{4}$ of a litre of apple juice.

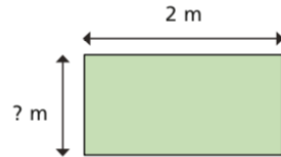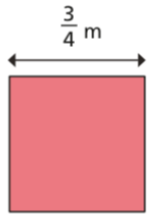He pours the juice into 5 glasses equally.

How much juice is in each glass?

$\frac{2}{3} + \frac{3}{4} = \frac{17}{12}$

$\frac{17}{12} \div 5 = \frac{17}{60}$

$\frac{17}{60}$ l

5 The area of these two shapes are equal.

Find the height of the rectangle.

$\frac{3}{4}$ m

2 m

? m

6 In a class, $\frac{2}{3}$ of the pupils are boys.

$\frac{1}{4}$ of the girls wear glasses and $\frac{1}{6}$ of the boys wear glasses.

Do more boys or girls wear glasses?

Explain your reasoning.

_____

_____

7 Work out the calculation.
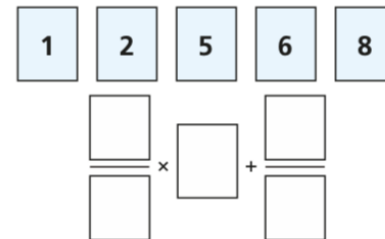
$$\left(1\frac{3}{5} - \frac{7}{10}\right)^2$$

8 Use what you know about working with fractions to explain, prove or disprove the following statements.

a) Half of a half of a half is an eighth.

_____

_____

_____

b) Quarter of a half plus half of a quarter is a quarter.

_____

_____

_____

9

| 1 | 2 | 5 | 6 | 8 |

$\frac{\square}{\square} \times \square + \frac{\square}{\square}$

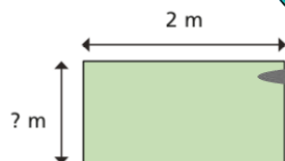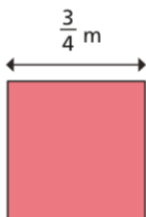Explore the different totals you can make using each card once only.

The Answers Are On The Next Slide …..

no peeking

elyxandra

5 The area of these two shapes are equal.

Find the height of the rectangle.

$\frac{3}{4}$ m

2 m

? m

$\frac{9}{32}$

6 In a class, $\frac{2}{3}$ of the pupils are boys.

$\frac{1}{4}$ of the girls wear glasses and $\frac{1}{6}$ of the boys wear glasses.

Do more boys or girls wear glasses?

Explain your reasoning.

Boys

Girls

$\clubsuit$ = wears glasses

$\frac{2}{3} \times \frac{1}{6} = \frac{1}{9}$ $\frac{1}{3} \times \frac{1}{4} = \frac{1}{12}$ $\frac{1}{9} > \frac{1}{12}$

More boys wear glasses.

7 Work out the calculation.

$$\left(1\frac{3}{5} - \frac{7}{10}\right)^2$$

$\frac{81}{100}$

8 Use what you know about working with fractions to explain, prove or disprove the following statements.

a)
> Half of a half of a half is an eighth.

$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{8}$ This is true.
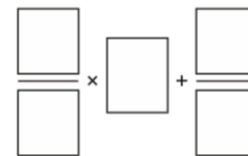
b)
> Quarter of a half plus half of a quarter is a quarter.

$\frac{1}{4} \times \frac{1}{2} + \frac{1}{2} \times \frac{1}{4} = \frac{1}{8} + \frac{1}{8} = \frac{2}{8} = \frac{1}{4}$ This is true.
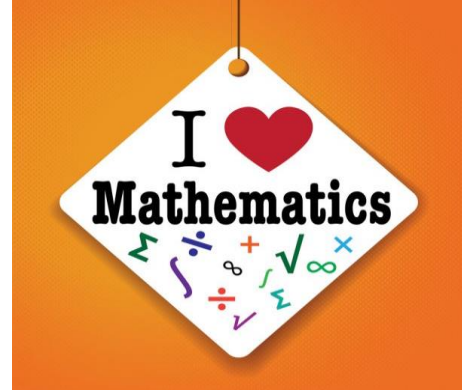
9

| 1 | 2 | 5 | 6 | 8 |

Various answers.

$$\frac{\square}{\square} \times \square + \frac{\square}{\square}$$

Explore the different totals you can make using each card once only.

Tuesday 26ᵗʰ January

Fractions of amounts.

Watch the video link and answer the following questions

https://vimeo.com/480708541

Fractions of an amount

1

20
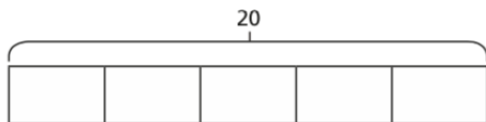
a) Shade $\frac{1}{5}$ of the bar model.

b) What is $\frac{1}{5}$ of 20? ☐

2 Use your times tables knowledge to solve the calculations.

a) $\frac{1}{3}$ of 12 = ☐

d) $\frac{1}{10}$ of 80 cm = ☐

b) $\frac{1}{4}$ of £20 = ☐

e) $\frac{1}{12}$ of 60 = ☐

c) $\frac{1}{5}$ of 35 m = ☐

f) $\frac{1}{7}$ of 84 kg = ☐

Now use your answers to solve these calculations.

a) $\frac{2}{3}$ of 12 = ☐

d) $\frac{7}{10}$ of 80 cm = ☐

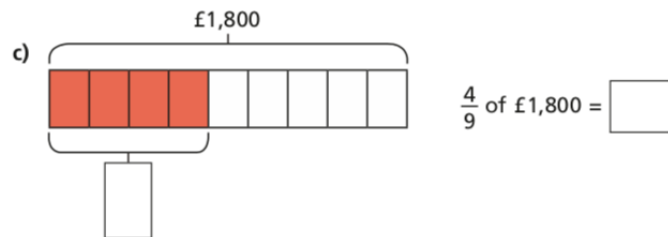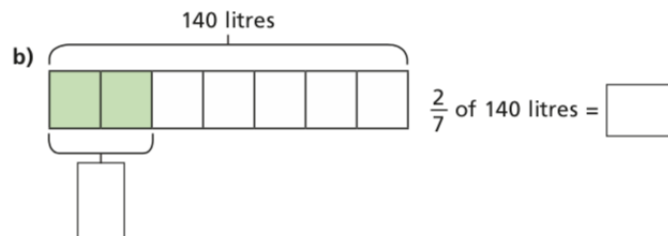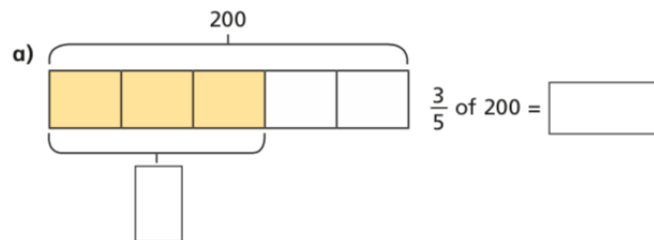b) $\frac{3}{4}$ of £20 = ☐

e) $\frac{11}{12}$ of 60 = ☐

c) $\frac{3}{5}$ of 35 m = ☐

f) $\frac{6}{7}$ of 84 kg = ☐

3 Calculate the missing values.

a)

200

$\frac{3}{5}$ of 200 = ☐

b)

140 litres

$\frac{2}{7}$ of 140 litres = ☐

c)

£1,800

$\frac{4}{9}$ of £1,800 = ☐

d)

990

$\frac{3}{11}$ of 990 = ☐

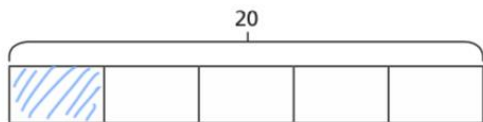# The Answers Are On The Next Slide …..

Fractions of an amount

1

20

a) Shade $\frac{1}{5}$ of the bar model.

b) What is $\frac{1}{5}$ of 20? **4**

2 Use your times tables knowledge to solve the calculations.

a) $\frac{1}{3}$ of 12 = **4**

d) $\frac{1}{10}$ of 80 cm = **8 cm**

b) $\frac{1}{4}$ of £20 = **£5**

e) $\frac{1}{12}$ of 60 = **5**

c) $\frac{1}{5}$ of 35 m = **7 m**

f) $\frac{1}{7}$ of 84 kg = **12kg**

Now use your answers to solve these calculations.

a) $\frac{2}{3}$ of 12 = **8**

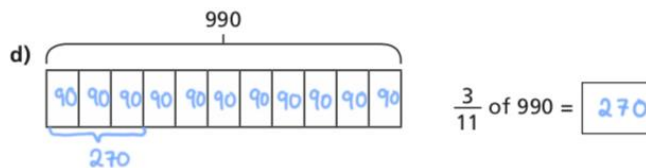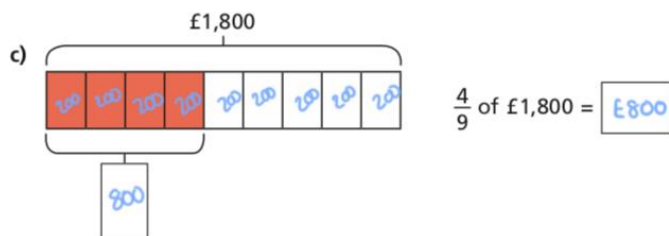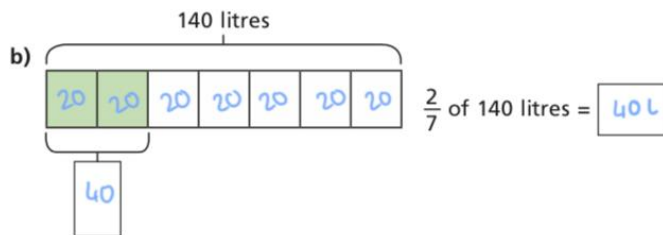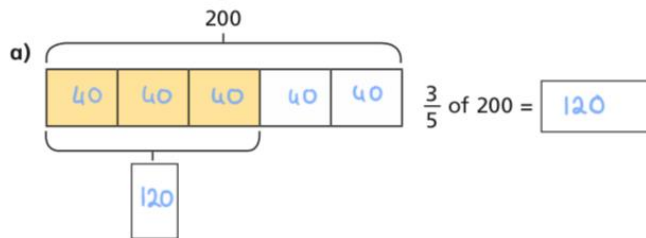d) $\frac{7}{10}$ of 80 cm = **56cm**

b) $\frac{3}{4}$ of £20 = **£15**

e) $\frac{11}{12}$ of 60 = **55**

c) $\frac{3}{5}$ of 35 m = **21m**

f) $\frac{6}{7}$ of 84 kg = **72kg**

3 Calculate the missing values.

a)

200

| 40 | 40 | 40 | 40 | 40 |

120

$\frac{3}{5}$ of 200 = **120**

b)

140 litres

| 20 | 20 | 20 | 20 | 20 | 20 | 20 |

40

$\frac{2}{7}$ of 140 litres = **40 L**

c)

£1,800

| 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |

800

$\frac{4}{9}$ of £1,800 = **£800**

d)

990

| 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |

270

$\frac{3}{11}$ of 990 = **270**

4 a) In a school of 480 pupils, $\frac{2}{3}$ are juniors.

How many juniors are in the school?

☐

b) A factory makes 256 cars.

$\frac{3}{8}$ are electric cars.

How many electric cars does the factory make?

☐

c) Brett uses $\frac{2}{5}$ of his £180 savings to buy a train ticket.

How much of his savings does he have left?

<u>CHALLENGE QUESTIONS</u>

☐

5

Alex has 288 m of fence to paint.

She paints $\frac{3}{12}$ of the whole fence on Monday. She then paints $\frac{1}{2}$ of what is left on Tuesday.

How much fence does she have left to paint?
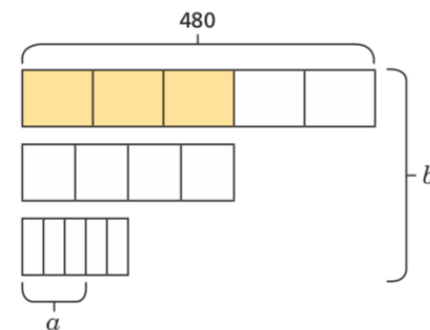
☐

6 Fill in the missing numbers.

a) $\frac{\boxed{}}{10}$ of $500 = $150

c) $42 = \frac{\boxed{}}{100}$ of 700

b) $\frac{\boxed{}}{4}$ of 100 kg = 75 kg

d) $450 = \frac{\boxed{}}{20}$ of 3,000

7 Find the values of a and b.

480

b

a

$a = \boxed{}$

$b = \boxed{}$

The Answers Are On The Next Slide …..

no peeking

4 a) In a school of 480 pupils, $\frac{2}{3}$ are juniors.
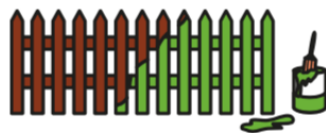
How many juniors are in the school?

320

b) A factory makes 256 cars.

$\frac{3}{8}$ are electric cars.

How many electric cars does the factory make?

96

c) Brett uses $\frac{2}{5}$ of his £180 savings to buy a train ticket.

How much of his savings does he have left?

£108

5

Alex has 288 m of fence to paint.

She paints $\frac{3}{12}$ of the whole fence on Monday. She then paints $\frac{1}{2}$ of what is left on Tuesday.

How much fence does she have left to paint?

108m

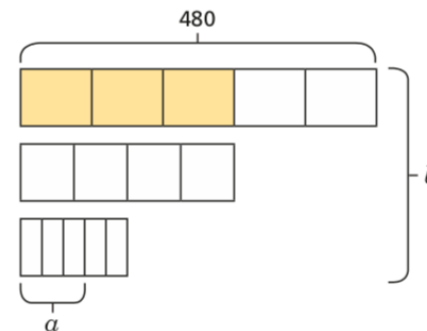**6** Fill in the missing numbers.

a) $\frac{3}{10}$ of $500 = $150

c) $42 = \frac{6}{100}$ of 700
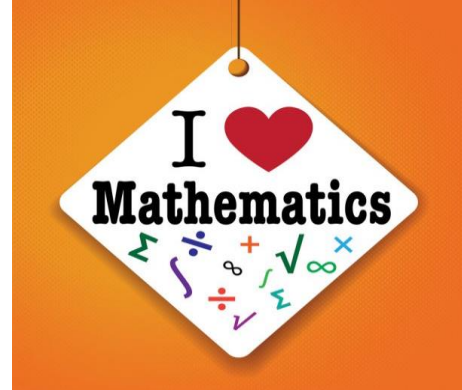
b) $\frac{3}{4}$ of 100 kg = 75 kg

d) $450 = \frac{3}{20}$ of 3,000

7 Find the values of a and b.

480

$a = $ 86·4 $b = $ 912

Wednesday 27th January

Fractions of amounts – Find the whole.

Watch the video link and answer the following questions

https://vimeo.com/480708847

1 Complete the calculations.

18

?

$\frac{1}{3}$ of 18 = [ ]

?

18

$\frac{1}{3}$ of [ ] = 18

What is the same about the calculations?

What is different?

2 a) Mr Hall walked $\frac{2}{3}$ of the way from his house to work.

He walked 6 miles.

How far is it in total from his house to work?

?

6 miles

[ ]

b) Jenny cycled $\frac{4}{5}$ of the way from her house to work.

She cycled 16 miles.

How far is it in total from her house to work?

?

[ ] miles

[ ]

3 Calculate the missing wholes.

a)

[ ]

25

c)

[ ]

4.5

b)

[ ]

120

d)

[ ]

231

The Answers Are On The Next Slide …..

no peeking

elyxandra

1 Complete the calculations.

18

?

?

18

$\frac{1}{3}$ of 18 = **6**

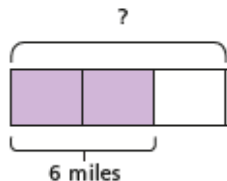$\frac{1}{3}$ of **54** = 18

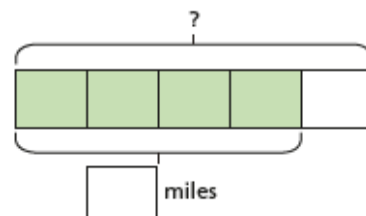What is the same about the calculations?

What is different?

2 a) Mr Hall walked $\frac{2}{3}$ of the way from his house to work.

He walked 6 miles.
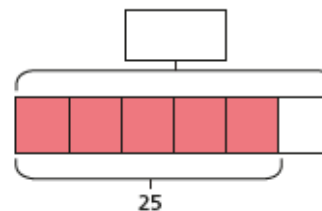
How far is it in total from his house to work?

?

6 miles

9 miles

b) Jenny cycled $\frac{4}{5}$ of the way from her house to work.

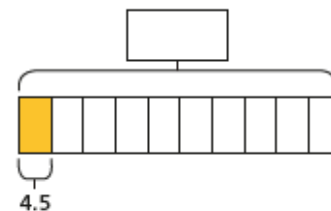She cycled 16 miles.

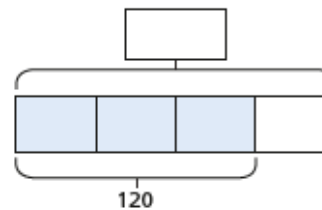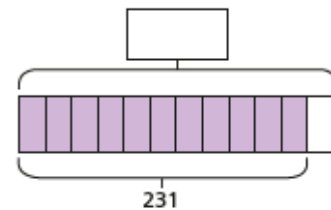How far is it in total from her house to work?

?
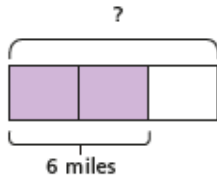
16 miles
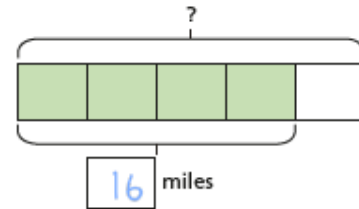
20 miles

3 Calculate the missing wholes.

a)

30

25

c)

45

4.5

b)

160

120

d)

252

231
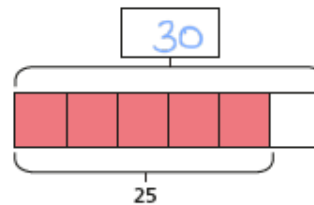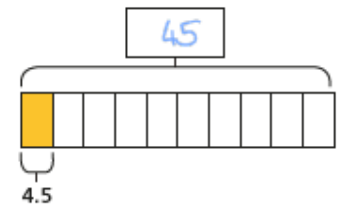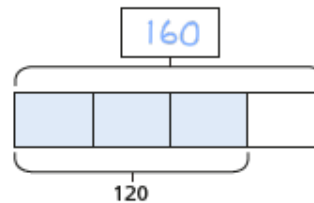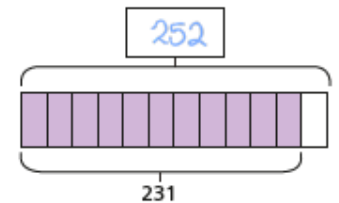
4 Fill in the missing information.

a) $\frac{1}{3}$ of $\boxed{}$ = 20

b) $80 = \frac{4}{10}$ of $\boxed{}$

$\frac{2}{3}$ of $\boxed{}$ = 20

$800 = \frac{4}{10}$ of $\boxed{}$

$\frac{4}{5}$ of $\boxed{}$ = 20

$8 = \frac{4}{10}$ of $\boxed{}$

$\frac{4}{5}$ of $\boxed{}$ = 120

$80 = \frac{4}{100}$ of $\boxed{}$
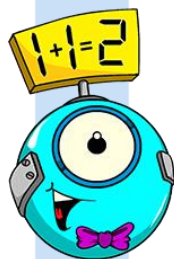
5 This diagram shows the fractions of trees in school grounds.

Oak	Elm	Fir	Apple
$\frac{1}{2}$	$\frac{1}{5}$	$\frac{1}{4}$	?

There are 40 elm trees.

Complete the table.

Oak	
Elm	40
Fir	
Apple	
Total	

CHALLENGE QUESTIONS

6 Jack poured $\frac{7}{10}$ of a tin of paint into this jug.

How many millimetres of paint are left in the tin?

$\boxed{}$

7 Complete the calculations.

$4 = \frac{10}{15}$ of $\boxed{}$

$15 = \frac{75}{100}$ of $\boxed{}$

$1 = \frac{250}{2,000}$ of $\boxed{}$

Compare your method with a partner. What do you notice?

The Answers Are On The Next Slide …..

no peeking

4 Fill in the missing information.

a) $\frac{1}{3}$ of $\boxed{60}$ = 20

b) $80 = \frac{4}{10}$ of $\boxed{200}$

$\frac{2}{3}$ of $\boxed{30}$ = 20

$800 = \frac{4}{10}$ of $\boxed{2,000}$

$\frac{4}{5}$ of $\boxed{25}$ = 20

$8 = \frac{4}{10}$ of $\boxed{20}$

$\frac{4}{5}$ of $\boxed{150}$ = 120

$80 = \frac{4}{100}$ of $\boxed{2,000}$

5 This diagram shows the fractions of trees in school grounds.

Oak	Elm	Fir	Apple
$\frac{1}{2}$	$\frac{1}{5}$	$\frac{1}{4}$	?

There are 40 elm trees.

Complete the table.

Oak	100
Elm	40
Fir	50
Apple	10
Total	200

6 Jack poured $\frac{7}{10}$ of a tin of paint into this jug.

How many millimetres of paint are left in the tin?

$\boxed{150\text{ml}}$

7 Complete the calculations.

$4 = \frac{10}{15}$ of $\boxed{6}$

$15 = \frac{75}{100}$ of $\boxed{20}$

$1 = \frac{250}{2,000}$ of $\boxed{8}$

Compare your method with a partner. What do you notice?

Thursday 28th January

End of block test

We have now finished our Fraction

Block. Please complete the test to

check your understanding

Name _____

1

Use the fraction bars to simplify the fractions.

$$\frac{6}{9} =$$

$$5\frac{3}{6} =$$

2 marks

2 Max says $\frac{30}{50}$ in its simplest form is $\frac{15}{25}$

Is Max correct?

Yes   No

Explain your answer.

1 mark

3
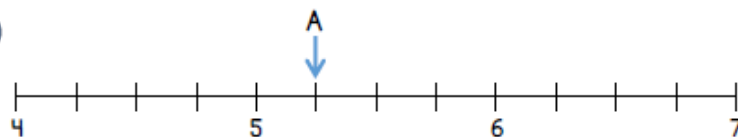
What number is the arrow pointing to?

_____

1 mark

Draw an arrow to the number that is $\frac{3}{4}$ less than A.

1 mark

What number is $1\frac{1}{2}$ greater than A?

_____

1 mark

4 Tick the statements that are true.

$\frac{3}{5}$ is greater than $\frac{3}{7}$ ☐ $1\frac{3}{8}$ is less than $\frac{7}{8}$ ☐

$\frac{2}{8}$ is equal to $\frac{5}{20}$ ☐ $2\frac{1}{4}$ is greater than $\frac{11}{4}$ ☐

2 marks

5 Write the fractions in order from smallest to largest.
You may use the number line to help you.

$$\frac{3}{4} \qquad \frac{5}{8} \qquad \frac{3}{8} \qquad \frac{1}{16}$$

_____ _____ _____ _____

2 marks

The Answers Are On The Next Slide …..

no peeking

elyxandra

Answers

1

Use the fraction bars to simplify the fractions.

$$\frac{6}{9} = \frac{2}{3} \qquad\qquad 5\frac{3}{6} = 5\frac{1}{2}$$

2 marks

2 Max says $\frac{30}{50}$ in its simplest form is $\frac{15}{25}$

Is Max correct?

Yes   (No)

Explain your answer.

5 is a factor of 15 and 25 so it will simplify to $\frac{3}{5}$

1 mark

3
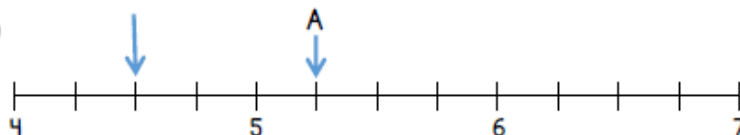
What number is the arrow pointing to?

5.25 or $5\frac{1}{4}$

1 mark

Draw an arrow to the number that is $\frac{3}{4}$ less than A.

1 mark

What number is $1\frac{1}{2}$ greater than A?

6.75 or $6\frac{3}{4}$

1 mark

4 Tick the statements that are true.

$\frac{3}{5}$ is greater than $\frac{3}{7}$ ✓ $1\frac{3}{8}$ is less than $\frac{7}{8}$ ☐

$\frac{2}{8}$ is equal to $\frac{5}{20}$ ✓ $2\frac{1}{4}$ is greater than $\frac{11}{4}$ ☐

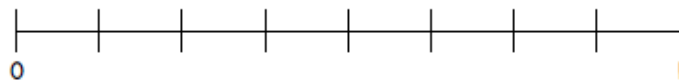*2 marks*

5 Write the fractions in order from smallest to largest.
You may use the number line to help you.

$$\frac{3}{4} \qquad \frac{5}{8} \qquad \frac{3}{8} \qquad \frac{1}{16}$$

$$\frac{1}{16} \qquad \frac{3}{8} \qquad \frac{5}{8} \qquad \frac{3}{4}$$

Award 1 mark for 2 correctly placed fractions.

2 marks

6 Calculate

$$\frac{2}{3} + \frac{1}{9} =$$

$$\frac{5}{6} - \frac{3}{4} =$$

$$2\frac{3}{5} + 1\frac{1}{2} =$$

7 Draw arrows from each fraction to its position on the number line.

0   1

$$\frac{36}{48} \qquad \frac{33}{66} \qquad \frac{29}{29}$$

8 Jenny reads $\frac{1}{4}$ of her book on Monday.

She reads $\frac{1}{3}$ of the book on Tuesday.

On Wednesday she reads the rest of the book.
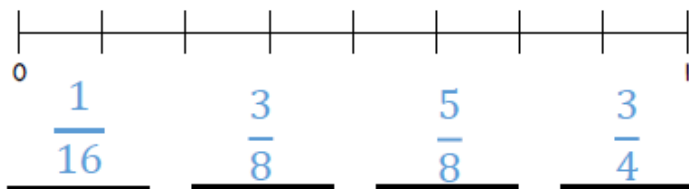
What fraction of the book did she read on Wednesday?

9 Three friends share a chocolate bar.

Laura gets $\frac{3}{9}$, Phil gets $\frac{4}{12}$ and Matt gets $\frac{7}{21}$

Did they share the chocolate bar equally?

Explain your answer.

10 A circle has an area of $18\frac{1}{6}$ cm^2.

Max cuts a triangle from the circle.

The triangle has an area of $5\frac{2}{3}$ cm^2.

What is the area of the circle that is left?

cm^2

Circle how confident you feel with fractions.

1	2	3	4	5
Not confident				Very confident

The Answers Are On The Next Slide …..

no peeking

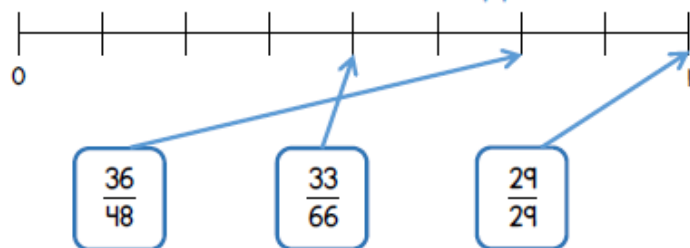elyxandra

6 Calculate

$$\frac{2}{3} + \frac{1}{9} = \frac{7}{9}$$

$$\frac{5}{6} - \frac{3}{4} = \frac{1}{12}$$

$$2\frac{3}{5} + 1\frac{1}{2} = 4\frac{1}{10}$$

7 Draw arrows from each fraction to its position on the number line.

Award 1 mark for 1 correctly placed fraction..

0   1

$$\frac{36}{48}$$ $$\frac{33}{66}$$ $$\frac{29}{29}$$

8 Jenny reads $\frac{1}{4}$ of her book on Monday.

She reads $\frac{1}{3}$ of the book on Tuesday.

On Wednesday she reads the rest of the book.

What fraction of the book did she read on Wednesday?

Award 1 mark for 1 correct
step of calculation.
- Finding equivalent
  fractions
- Adding fractions
  together

$$\frac{5}{12}$$

9 Three friends share a chocolate bar.

Laura gets $\frac{3}{9}$, Phil gets $\frac{4}{12}$ and Matt gets $\frac{7}{21}$

Did they share the chocolate bar equally?

Explain your answer.

Yes.

Each fraction is equivalent to one third.

10 A circle has an area of $18\frac{1}{6}$ cm^2.

Max cuts a triangle from the circle.

The triangle has an area of $5\frac{2}{3}$ cm^2.

What is the area of the circle that is left?

Award 2 marks for the correct answer.
Award 1 mark for 1 step of correct calculation.

$$12\frac{1}{2} \text{ cm}^2$$

Circle how confident you feel with fractions.

1	2	3	4	5
Not confident				Very confident

Name _____

1 A carton contains $\frac{2}{3}$ of a litre of milk.

How much milk is in 4 cartons?

You may use the number line to help you.

$$\begin{array}{cccccc} & & & & & \\ 0 & & 1 & & 2 & & 3 & & 4 \end{array}$$
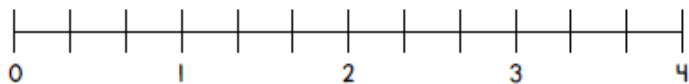
_____ litres

1 mark

2 Work out $\frac{1}{2} \times \frac{3}{4}$

You may use the diagram to help you.

_____
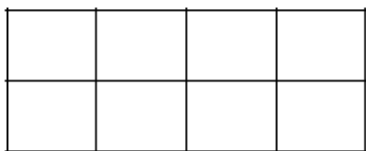
1 mark

3 What is $1\frac{3}{4} \times 3$

You may use the images to help you.

_____

2 marks

4 Work out the missing values.

$$10 \times \frac{1}{3} = \frac{\square}{3}$$

$$10 \times \frac{\square}{7} = \frac{20}{7}$$

$$10 \times \frac{\square}{9} = 7\frac{7}{9}$$

$$10 \times \frac{1}{\square} = 2$$

4 marks

5 A bag contains 400 counters.

$\frac{1}{4}$ of the counters are red.

$\frac{3}{8}$ of the counters are blue.

How many more blue counters than red counters are there?

_____

2 marks

The Answers Are On The Next Slide …..

no peeking

elyxandra

Answers

1 A carton contains $\frac{2}{3}$ of a litre of milk.

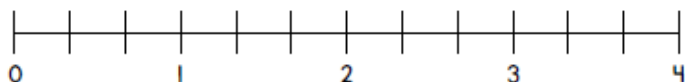How much milk is in 4 cartons?

You may use the number line to help you.

$2\frac{2}{3}$ litres

1 mark

2 Work out $\frac{1}{2} \times \frac{3}{4}$

You may use the diagram to help you.

$\frac{1}{2}$

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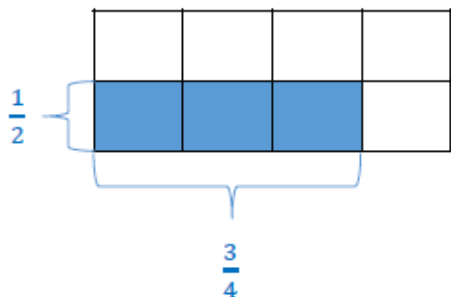
$\frac{3}{8}$

1 mark

3 What is $1\frac{3}{4} \times 3$

You may use the images to help you.

Award 1 mark for evidence of a clear method

e.g. shading in three lots of $1\frac{3}{4}$

$5\frac{1}{4}$

2 marks

4 Work out the missing values.

$$10 \times \frac{1}{3} = \frac{\boxed{10}}{3}$$

$$10 \times \frac{\boxed{2}}{7} = \frac{20}{7}$$

$$10 \times \frac{\boxed{7}}{9} = 7\frac{7}{9}$$

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

4 marks

5 A bag contains 400 counters.

$\frac{1}{4}$ of the counters are red.

$\frac{3}{8}$ of the counters are blue.

How many more blue counters than red counters are there?

Award 1 mark for evidence of 1
step of correct mathematical
working.

50

2 marks

6 Use the diagram to convince me that $\frac{1}{3} \div 2$ is equal to $\frac{1}{6}$

What is $\frac{1}{2} \div 5$?

_____

1 mark

What is $\frac{2}{3} \div 4$?

_____

1 mark

7

144

A

B
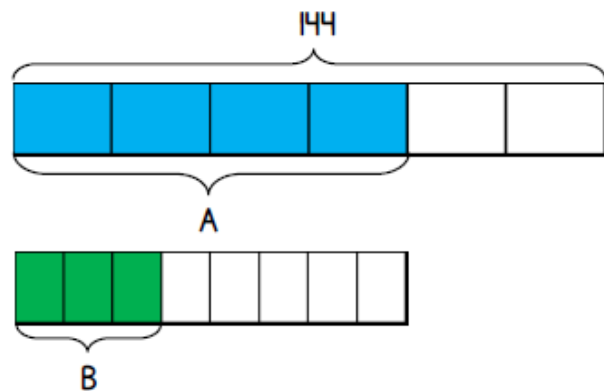
What is the value of A?

_____

What is the value of B?

_____

2 marks

8 From Monday to Wednesday, Max rows $2\frac{1}{5}$ km each day.

From Thursday to Saturday, Max rows $4\frac{3}{10}$ km each day.

How far does he row in total from Monday to Saturday?

Show all your working.

_____ km

2 marks

9 Becky spends $\frac{3}{5}$ of her money.

She has £60 left.

How much money did she start with?

£ _____

1 mark

10 $\frac{2}{5}$ of $\frac{1}{4}$ of a number is equal to 8

What is the number?

_____

2 marks

1 mark

Circle how confident you feel with fractions.

1   2   3   4   5

Not confident   Very confident

The Answers Are On The Next Slide …..

no peeking

elyxandra

6 Use the diagram to convince me that $\frac{1}{3} \div 2$ is equal to $\frac{1}{6}$

Could split one third into two equal parts and shade one of them to show one sixth.

1 mark

What is $\frac{1}{2} \div 5$?

$\frac{1}{10}$

1 mark

What is $\frac{2}{3} \div 4$?

$\frac{1}{6}$

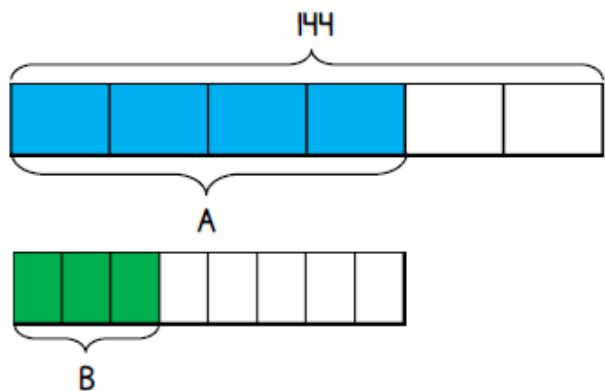| |
|---|
| 1 mark |

7

144

A

B

What is the value of A?   96

What is the value of B?   36

2 marks

8 From Monday to Wednesday, Max rows $2\frac{1}{5}$ km each day.

From Thursday to Saturday, Max rows $4\frac{3}{10}$ km each day.

How far does he row in total from Monday to Saturday?

Show all your working.   Award 1 mark for 1 step of correct calculation.

$2\frac{1}{5} \times 3 = 6\frac{3}{5}$ $4\frac{3}{10} \times 3 = 12\frac{9}{10}$

$6\frac{3}{5} + 12\frac{9}{10} = 6\frac{6}{10} + 12\frac{9}{10} = 19\frac{5}{10} = 19\frac{1}{2}$ $19\frac{5}{10}$ or $19\frac{1}{2}$ km

2 marks

9 Becky spends $\frac{3}{5}$ of her money.

She has £60 left.

How much money did she start with?

£ 150

1 mark

10 $\frac{2}{5}$ of $\frac{1}{4}$ of a number is equal to 8

What is the number?

Award 1 mark for evidence of a clear method.

80

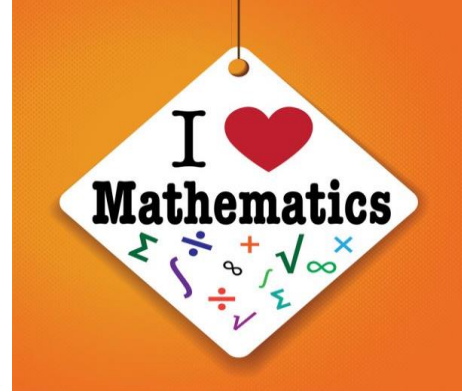| |
|---|
| 2 marks |

Circle how confident you feel with fractions.

1   2   3   4   5

Not confident   Very confident

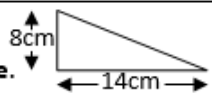# Friday 29th January

Skills Check

A: Place Value, Add, Subtract, Multiply and Divide		B: Fractions, Ratio, Proportion and Algebra		C: Measure, Geometry and Statistics	
1. Write **four million, twenty two thousand, and sixteen** in digits.	6:1	11. Which is the **smallest** fraction? $\frac{4}{5}$, $\frac{7}{10}$ or $\frac{17}{20}$	6:7	21. Calculate the **area** of this **triangle**. 8cm 14cm	6:21
2. What is the value of the **4** in this number? 1,384,721	6:1	12. $\frac{7}{10} - \frac{9}{15} =$	6:8	22. Find the **volume** of this **cuboid**. 1.5m 4m 2m	6:22
3. Round 7.186 to 1 decimal place.	6:1	13. Simplify your answer. $\frac{3}{5} \times \frac{1}{6} =$	6:9	23. Complete this net of a cuboid.	6:23
4. What is the largest possible length? Length: 12.5cm (to 1 decimal place)	6:2	14. 257.3 ÷ 100	6:10		
5. 1,275 x 22	6:3	15. 3.48 x 6	6:11	24. 80 students were asked what their favourite fruit was. The results are shown in this Pie Chart.	6:29
6. Give the answer as a **mixed number**: 1,626 ÷ 12	6:3	16. Write this percentage as a **fraction** and a **decimal**. 30%	6:12	Orange Apple Banana	
7. Which is a **common multiple** of 8 and 12? 4 8 12 24 36	6:4	17. Find **40%** of 270.	6:13		
8. Circle **all** the **prime numbers**: 50 53 57 59	6:4	18. Share £24 in the ratio 2:1.	6:14		
9. 25 - 12 + 8	6:5	19. How much will a 10 mile trip cost? Taxi charge: £2 + 20p per mile.	6:15	How many students said that apples were their favourite fruit?	
10. Give two numbers that have a difference of 8 and add to make 4.	6:6	20. The rule for this sequence is multiply by 2 then add 1: 2, 5, 11, ☐	6:16	25. Find the mean of these numbers: 3 7 6 8 6	6:30
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 …..

A: Place Value, Add, Subtract, Multiply and Divide		B: Fractions, Ratio, Proportion and Algebra		C: Measure, Geometry and Statistics	
1. Write **four million, twenty two thousand, and sixteen** in digits.	*6:1* **4,022,016**	11. Which is the **smallest** fraction? $\frac{4}{5}$, $\frac{7}{10}$ or $\frac{17}{20}$	*6:7* $\frac{7}{10}$	21. Calculate the **area** of this **triangle**. 8cm, 14cm	*6:21* **56cm²**
2. What is the value of the **4** in this number? 1,384,721	*6:1* **4,000**	12. $\frac{7}{10} - \frac{9}{15} =$	*6:8* $\frac{3}{30}$ or $\frac{1}{10}$	22. Find the **volume** of this **cuboid.** 1.5m, 4m, 2m	*6:22* **12m³**
3. Round 7.186 to 1 decimal place.	*6:1* **7.2**	13. Simplify your answer. $\frac{3}{5} \times \frac{1}{6} =$	*6:9* $\frac{1}{10}$	23. Complete this net of a cuboid.	*6:23* **Rect-angles drawn**
4. What is the largest possible length? Length: 12.5cm (to 1 decimal place)	*6:2* **12.54cm**	14. $257.3 \div 100$	*6:10* **2.573**		
5. $1,275 \times 22$	*6:3* **28,050**	15. 3.48×6	*6:11* **20.88**	24. 80 students were asked what their favourite fruit was. The results are shown in this Pie Chart. Orange, Apple, Banana	*6:29* **20**
6. Give the answer as a **mixed number:** $1,626 \div 12$	*6:3* $135\frac{1}{2}$	16. Write this percentage as a **fraction** and a **decimal**. 30%	*6:12* $\frac{3}{10}$,0.3		
7. Which is a **common multiple** of 8 and 12? 4 8 12 24 36	*6:4* **24**	17. Find **40%** of 270.	*6:13* **108**		
8. Circle **all** the **prime numbers**: 50 (53) 57 (59)	*6:4* **53, 59**	18. Share £24 in the ratio 2:1.	*6:14* **£16:£8**	How many students said that apples were their favourite fruit?	
9. $25 - 12 + 8$	*6:5* **5**	19. How much will a 10 mile trip cost? Taxi charge: £2 + 20p per mile.	*6:15* **£4**		
10. Give two numbers that have a difference of 8 and add to make 4.	*6:6* **-2, 6**	20. The rule for this sequence is multiply by 2 then add 1: 2, 5, 11, ☐	*6:16* **23**	25. Find the mean of these numbers: 3 7 6 8 6	*6:30* **6**
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)		Y (10-19)	G (20-25)