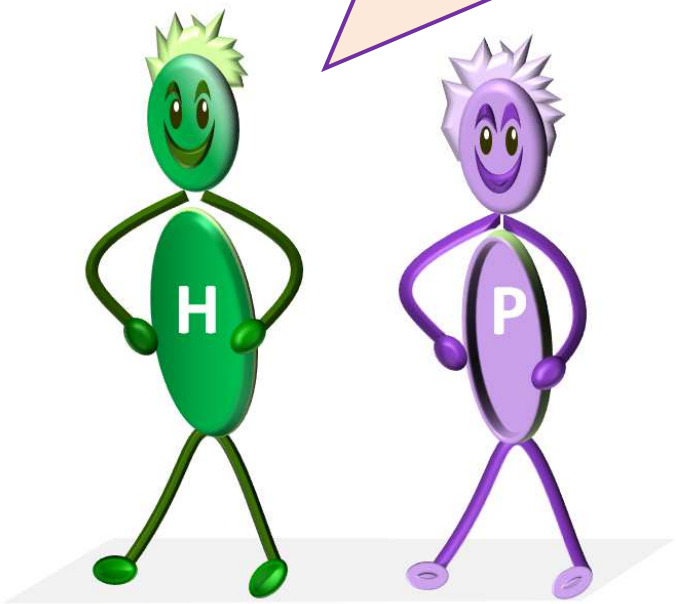
Henry and Poppy

have fun with numbers

Year 6 maths
part 1

(for 10-11 year olds)

We had fun making these questions for you. Enjoy them.



1 The world's highest mountain is 885,000 cm

A smaller mountain is 25,000 cm less

How high is the smaller mountain

cm

1 mark

The distance to the moon is 384, million metres

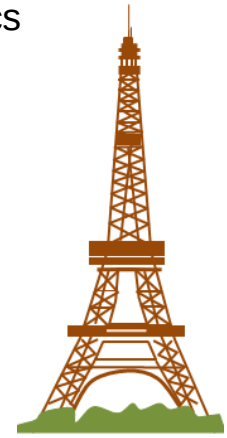
Not to scale

Write the number that is one hundred thousand less than 384 million

1 mark

6N2: Read, write, order and compare numbers up to 10,000,000

2 The Eiffel Tower cost 7,799,401 French Francs to build



What is 7,799,401 in words

1 mark

What is half a million less than 7,799,401

1 mark

6N2: Read, write, order and compare numbers up to 10,000,000

3 Write these numbers in words

1,123,456

1 mark

1,654,321

9,801,010

1 mark

9,009,009

1 mark

6N2: Read, write, order and compare numbers up to 10,000,000

4 Sort these numbers in order, highest at the top

123,456 102,345 120,456 122,345 123,056

1 mark

6N2: Read, write, order and compare numbers up to 10,000,000

5 Write the correct sign. Choose from >, < or =

109,000 ☐ 100,900

119,009 ☐ 191,900

1,000,000 ☐ one hundred thousand

1,999,999 ☐ 999,999

1 mark

6N2: Read, write, order and compare numbers up to 10,000,000

6 Sort these numbers in order, highest at the top

1,234,567 1,023,456 1,204.569 12,234,500 1,230,560

1 mark

6N2: Read, write, order and compare numbers up to 10,000,000

1 Look at this number

12, 345, 678

What value does the 3 represent in this number

1 mark

What value does the 2 represent in this number

Write eight million, nine hundred and twenty six thousand, three hundred and forty six as a number

1 mark

6N3: Determine the value of each digit in numbers up to 10,000,000

2 Look at this number

9, 102, 659

What value does the 0 represent in this number

1 mark

What value does the 2 represent in this number

Write seven million, fifty six thousand and twenty six as a number

1 mark

6N3: Determine the value of each digit in numbers up to 10,000,000

3 Look at this number

7, 031, 529

What value does the 0 represent in this number

1 mark

What value does the 1 represent in this number

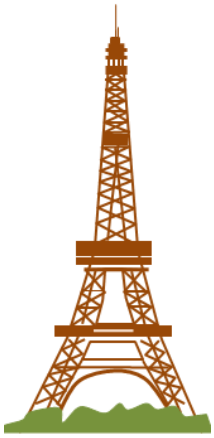
Write four million, two thousand and nine as a number

1 mark

6N3: Determine the value of each digit in numbers up to 10,000,000

1 The Eiffel Tower is 32, 400 cm high.

It cost 7,799,401 French Francs to build



What is **32, 400 cm** when **rounded**

to the **nearest 10 000** _____ cm

1 mark

to the **nearest 1 000** _____ cm

1 mark

What **7,799,401** when **rounded**

to the **nearest 100 000** _____ cm

1 mark

to the **nearest 10 000** _____ cm

1 mark

6N4: Round any whole number to a required degree of accuracy

2 Look at these number

123,050 ☐ 124, 099 ☐ 123, 999 ☐ 123, 399 ☐

Tick all the numbers which are **123, 000** when **rounded** to the **nearest 1,000**

1 mark

What is **358, 287** when **rounded**

to the **nearest 100, 000** ☐

to the **nearest 10,000** ☐

2 marks

6N4: Round any whole number to a required degree of accuracy

3 Look at these number

124,050 ☐ 125,099 ☐ 131,499 ☐ 134,490 ☐

Tick all the numbers which are **130 ,000** when **rounded** to the **nearest 10,000**

1 mark

What is **488,587** when **rounded**

to the **nearest 1,000** ☐

to the **nearest 100,000** ☐

2 marks

6N4: Round any whole number to a required degree of accuracy

4 Look at these number

154,050 ☐ 145, 099 ☐ 231,450 ☐ 204,999 ☐

Tick all the numbers which are **200,000** when **rounded** to the **nearest 100,000**

1 mark

What is **1,588,587** when **rounded**

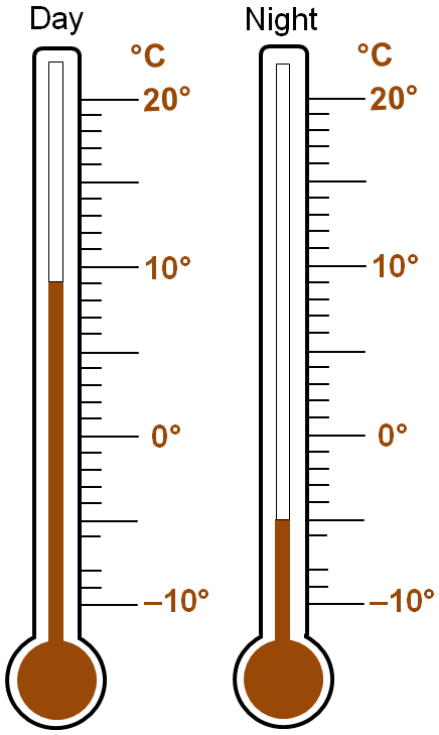
to the **nearest 100** ☐

to the **nearest 1,000,000** ☐

2 marks

6N4: Round any whole number to a required degree of accuracy

1 The thermometers show the temperature at day and night.



What is the difference between the two temperatures?

°C

1 mark

Yesterday the temperature was 2 degrees lower at night.

What was the temperature at night yesterday?

°C

1 mark

Ref: 6N5 Use negative numbers in context, and calculate intervals across zero

2 The channel tunnel is 250 feet below sea level.

The Seikan Tunnel in Japan is 540 feet deeper.

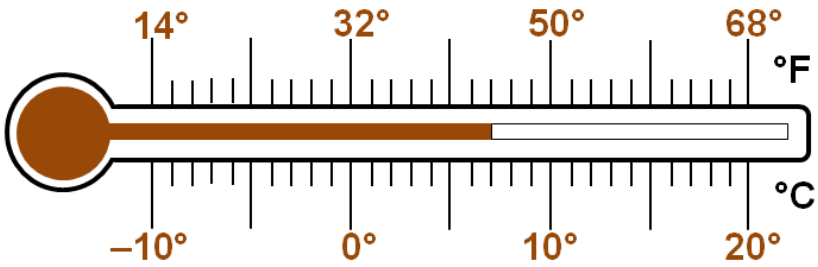
How deep is the Seikan Tunnel

feet

1 mark

Ref: 6N5 Use negative numbers in context, and calculate intervals across zero

3 The temperature today is shown on the thermometer.



Yesterday the temperature was 12°C colder.
What was the temperature yesterday in °C and °F

°C

°F

1 mark

Ref: 6N5 Use negative numbers in context, and calculate intervals across zero

4

Write the missing numbers.
The first one has been done

	halfway between	
– 1	0	1
– 2		4
	3	8
– 4	3	

1 mark

1 mark

1 mark

Ref: 6N5 Use negative numbers in context, and calculate intervals across zero

1 Tick two numbers which multiply to make 600, 000

20	200	300	2,000	3,000
☐	☐	☐	☐	☐

1 mark

Ref: 6N6 Solve number problems and practical problems that involve 6N2-6N5

2 Round the numbers to the nearest ten to estimate

29.6 × 9.87 = ☐ 1 mark

52.3 ÷ 4.98 = ☐ 1 mark

1596 ÷ 35.9 = ☐ 1 mark

75.9 × 45.9 = ☐ 1 mark

Ref: 6N6 Solve number problems and practical problems that involve 6N2-6N5

3 The Mariana Trench is the deepest part of the world's oceans. It is 11,0344 metres deep.

Mount Everest is the world's highest mountain.
It 8,848 metres high.

How far is it between the bottom of the Mariana Trench and the top of Mount Everest.

m

1 mark

Ref: 6N6 Solve number problems and practical problems that involve 6N2-6N5

1 What is 15.1 × 19.6

Estimate and tick the correct answer

280	350	300	3,000	1519
☐	☐	☐	☐	☐

1 mark

Ref: 6C3 Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

2 What is 149 ÷ 9.8

Estimate and tick the correct answer

1500	150	1499	149	15
☐	☐	☐	☐	☐

1 mark

Ref: 6C3 Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

3 What is 550 × 9.9

Estimate and tick the correct answer

Between 500 – 1000	Between 1000 – 5000	Between 5000 – 9000
☐	☐	☐

1 mark

Ref: 6C3 Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

4 What is 800 × 12 ÷ 3

Estimate and tick the correct answer

Between 2000 – 3000	Between 3000 – 4000	Between 4000 – 5000
☐	☐	☐

1 mark

Ref: 6C3 Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

5 What is 4.8 × 50 ÷ 2.4

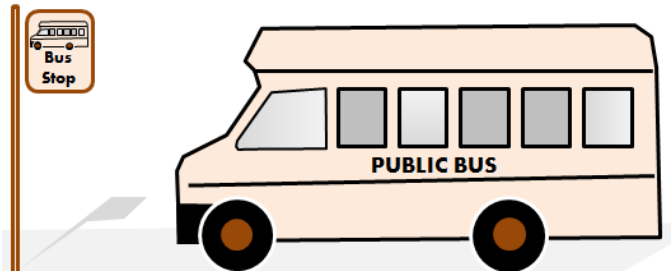
Estimate and tick the correct answer

Between 100 – 200	Between 200 – 300	Between 400 – 500
☐	☐	☐

1 mark

Ref: 6C3 Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

1 There were 12 people on the bus.



At the first stop, six more people got on and two got off.

At the second stop, eight more people got on and nine got off.

How many people are left on the bus after the second stop.

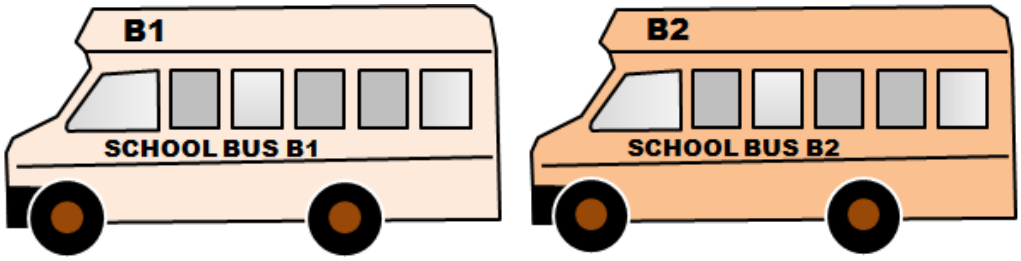
Show your Method

people

2 marks

Ref: 6C4 Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

2 There were two school buses B1 and B2.



There were 8 more children on the B1 than the B2.

Altogether on both buses there were 56 children.

How many children were on each bus.

Show your Method

B1 _____ children

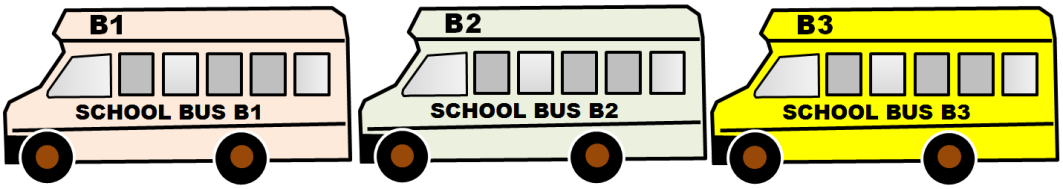
B2 _____ children

1 mark

1 mark

Ref: 6C4 Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why also (Algebra)

3 There were three school buses B1, B2 and B3.



There were two more children on the B1 than the B2.

There were five less children on the B3 than the B2

Altogether on the three buses there were 87 children.

How many children were on each bus.

Show your Method

B1 _____ children

B2 _____ children

B3 _____ children

1 mark

1 mark

1 mark

Ref: 6C4 Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why (also Algebra)

1 Write all the common multiples of 2 and 9 that are **less than 40**

1 mark

Ref: 6C5 Identify common factors, common multiples and prime numbers

2 Write all the common factors of 18 and 42

1 mark

Ref: 6C5 Identify common factors, common multiples and prime numbers

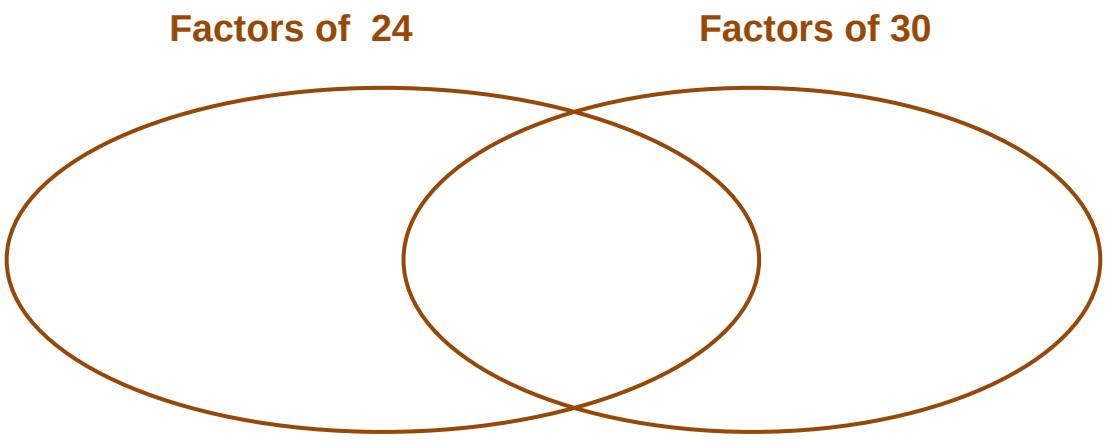
3 Write the numbers from 20 to 30 in their correct place on the diagram.

	Multiple of 3	NOT multiple of 3
Prime		
Not prime		

2 marks

Ref: 6C5 Identify common factors, common multiples and prime numbers

4 Write the factors of 24 and 30 and their common factors on the diagram.

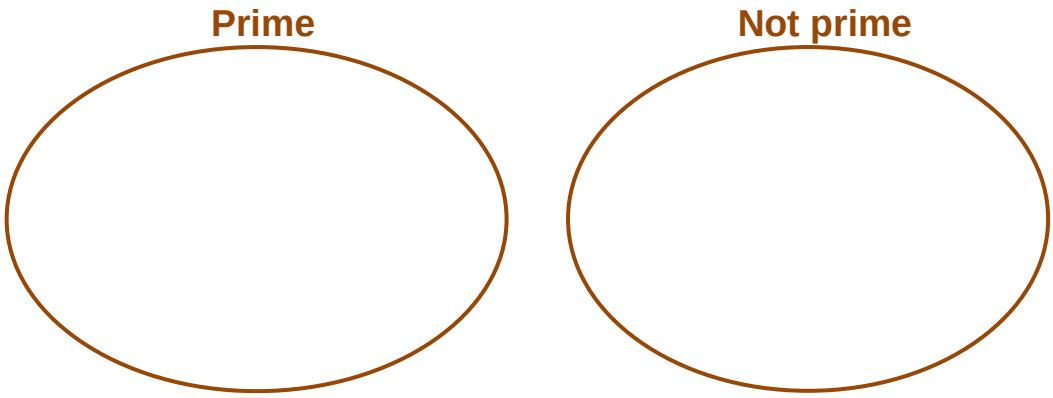


2 marks

Ref: 6C5 Identify common factors, common multiples and prime numbers

5 Sort these numbers into Prime and Not prime.

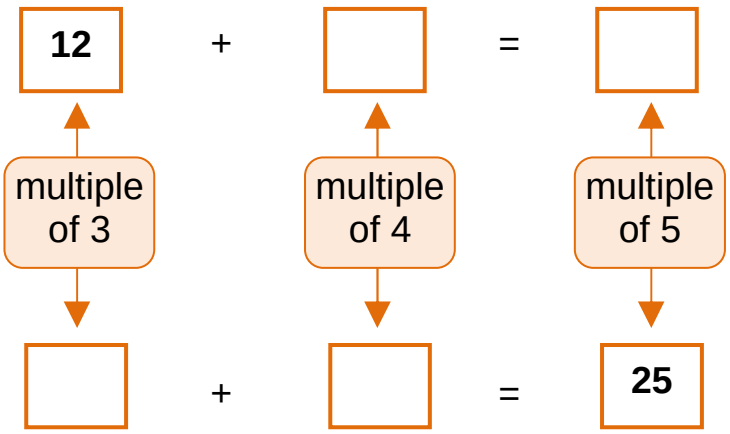
9 13 8 5 16 7 15 19



2 marks

Ref: 6C5 Identify common factors, common multiples and prime numbers

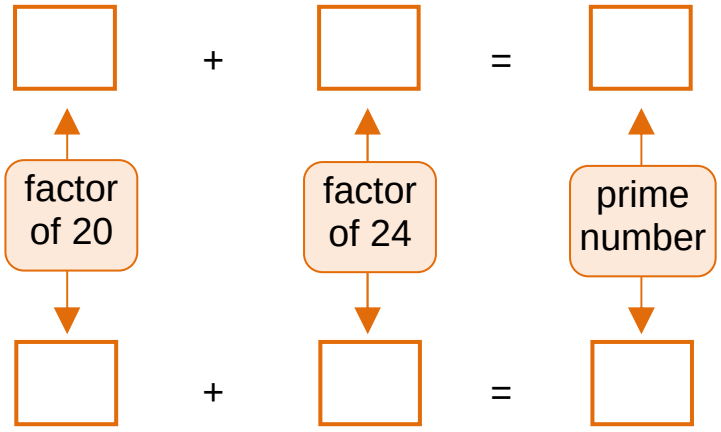
6 Write multiples to make these additions correct



2 marks

Ref: 6C5 Identify common factors, common multiples and prime numbers

7 Write factors and a prime number to make these



2 marks

Ref: 6C5 Identify common factors, common multiples and prime numbers

1

240 ÷ 5 =

1 mark

340 × 5 =

1 mark

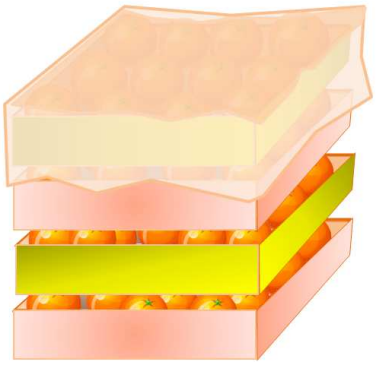
248 ÷ 8 =

1 mark

Ref: 6C6 Perform mental calculations, including with mixed operations and large numbers

2 A stack of oranges contains 56 oranges.

Each stack has 4 trays.



How many oranges are in 3 trays

Show your Method

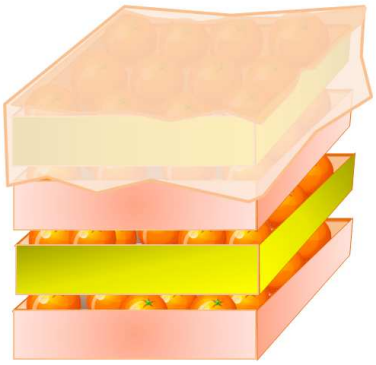
oranges

2 marks

Ref: 6C6 Perform mental calculations, including with mixed operations and large numbers

3 A stack of oranges contains 56 oranges.

The cost of a stack is £14.56.



How much do 8 oranges costs

Show your Method

p

2 marks

Ref: 6C6 Perform mental calculations, including with mixed operations and large numbers

4

99% of 500 =

1 mark

32 × 0.75 =

1 mark

44% of 25 =

1 mark

Ref: 6C6 Perform mental calculations, including with mixed operations and large numbers

5 Which calculation (✓) gives a different answer

25% of 1200	=		☐
16 × 25	=		☐
1200 ÷ 3	=		☐
999 – 555	=		☐
199 + 201	=		☐

1 mark

Ref: 6C6 Perform mental calculations, including with mixed operations and large numbers

6 Which calculations (✓) give a negative answer

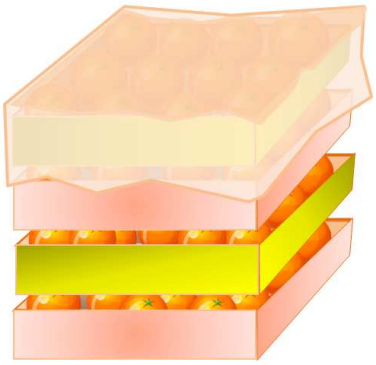
– 1 × – 1	=		☐
– 1 + – 1	=		☐
– 1 ÷ – 1	=		☐
– 1 – – 1	=		☐

1 mark

Ref: 6C6 Perform mental calculations, including with mixed operations and large numbers

7 A stack of oranges contains 63 oranges.

The cost of a stack is £18.09.



.

How much do 7 oranges costs

Show your Method

p

2 marks

Ref: 6C6 Perform mental calculations, including with mixed operations and large numbers

1

420 ÷ 6 =

1 mark

1000 ÷ 8 =

1 mark

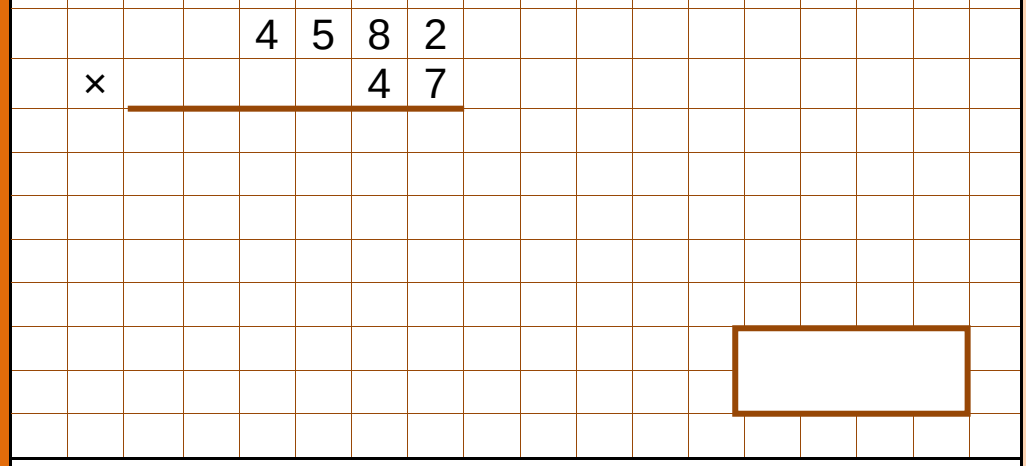
81 × 3 ÷ 9 =

1 mark

Ref: 6C6 Perform mental calculations, including with mixed operations and large numbers

1

Show your method

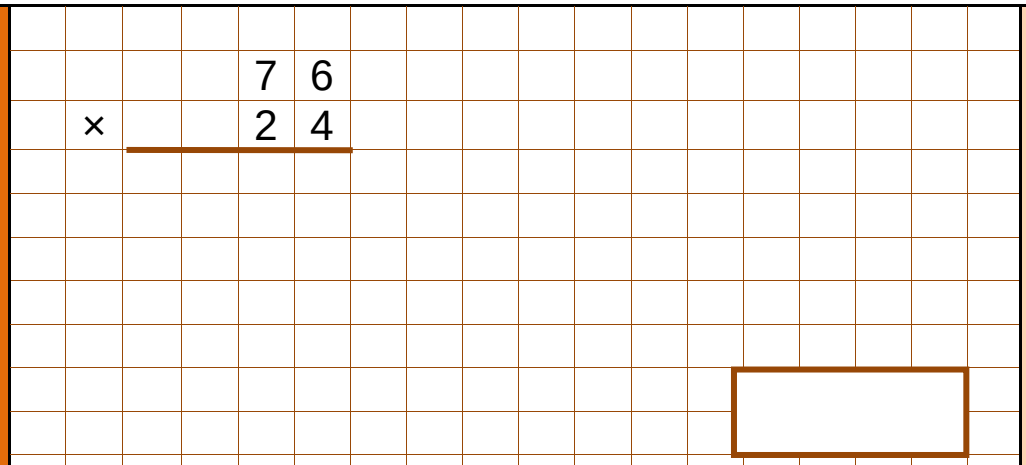


2 marks

Ref: 6C7a Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication

2

Show your method



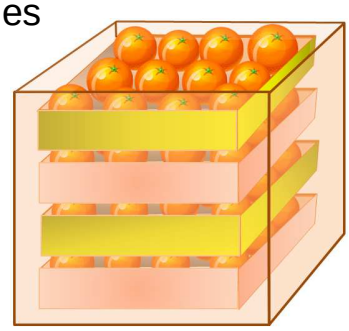
2 marks

Ref: 6C7a Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.

3 A supermarket ordered 35 boxes of oranges.

Each box contains 4 trays of oranges

Each tray contains 12 oranges.



How many oranges did the supermarket order in total

Show your Method

oranges

2 marks

Ref: 6C7a Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.

4

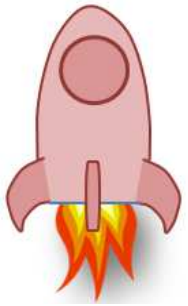
Show your method

				3	5	9	1												
	×					7	3												

2 marks

Ref: 6C7a Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.

5 A rocket needs to travel at 4.9 miles per second to get into space



What is the rocket's speed in miles per hour

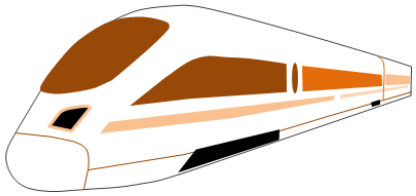
Show your Method

miles

2 marks

Ref: 6C7a Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.

6 One of the world's fastest trains travels at 198 mph



What distance would it travel in 17 hours

Show your Method

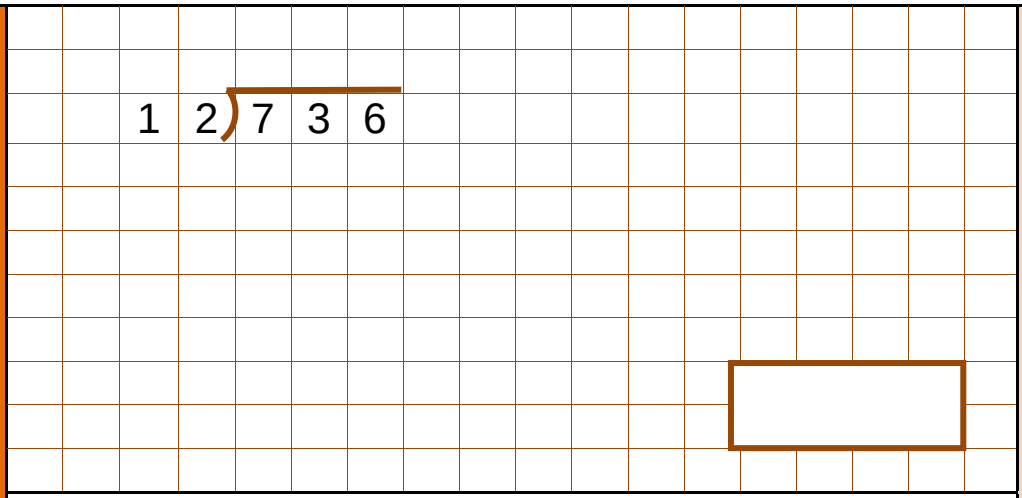
miles

2 marks

Ref: 6C7a Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.

1

Show your method

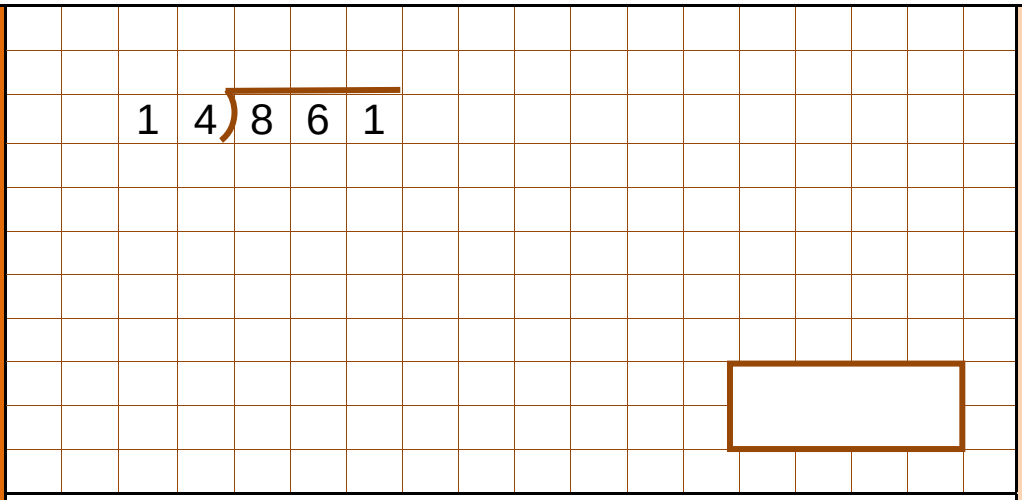


2 marks

Ref: 6C7b Divide numbers up to 4 digits by a two-digit number using the formal written method of short division and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

2

Show your method



2 marks

Ref: 6C7b Divide numbers up to 4 digits by a two-digit number using the formal written method of short division and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

3 One of the world's longest railway journey is 2,717 miles.

It takes 48 hours.

What is the average speed in miles per hour.

Show your Method

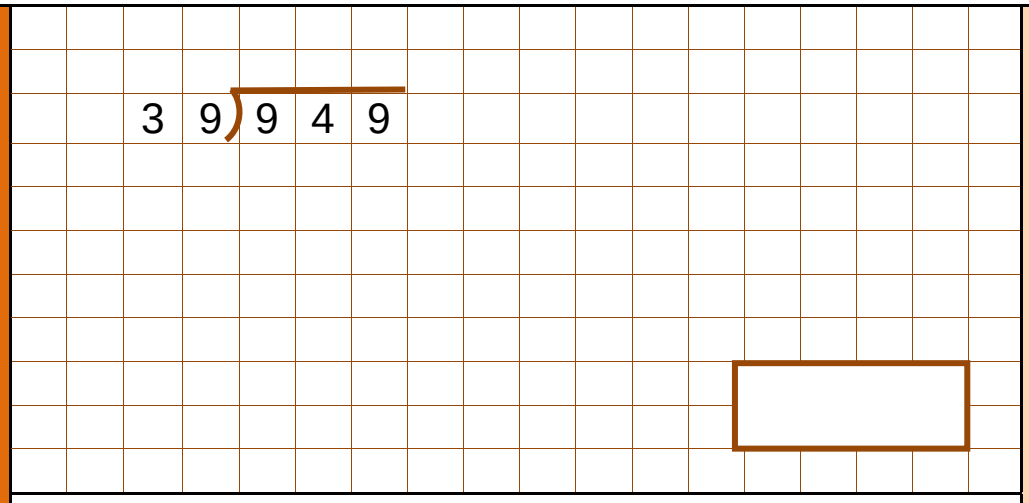
mph

2 marks

Ref: 6C7b Divide numbers up to 4 digits by a two-digit number using the formal written method of short division and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

4

Show your method

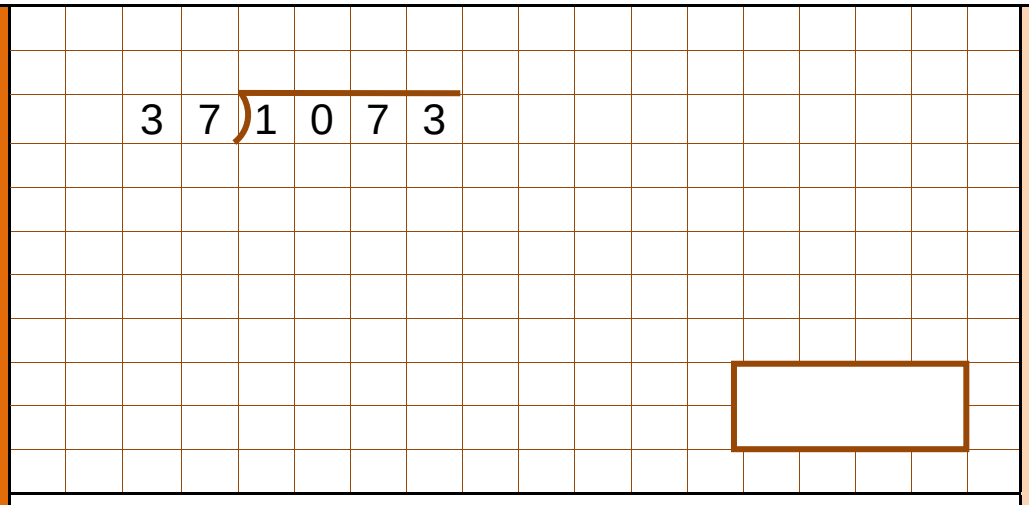


2 marks

Ref: 6C7b Divide numbers up to 4 digits by a two-digit number using the formal written method of short division and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

5

Show your method



2 marks

Ref: 6C7b Divide numbers up to 4 digits by a two-digit number using the formal written method of short division and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

6 One of the world's longest railway journey is 8289 km.

It has 58 stops.

What is the average distance between stops.

Show your Method

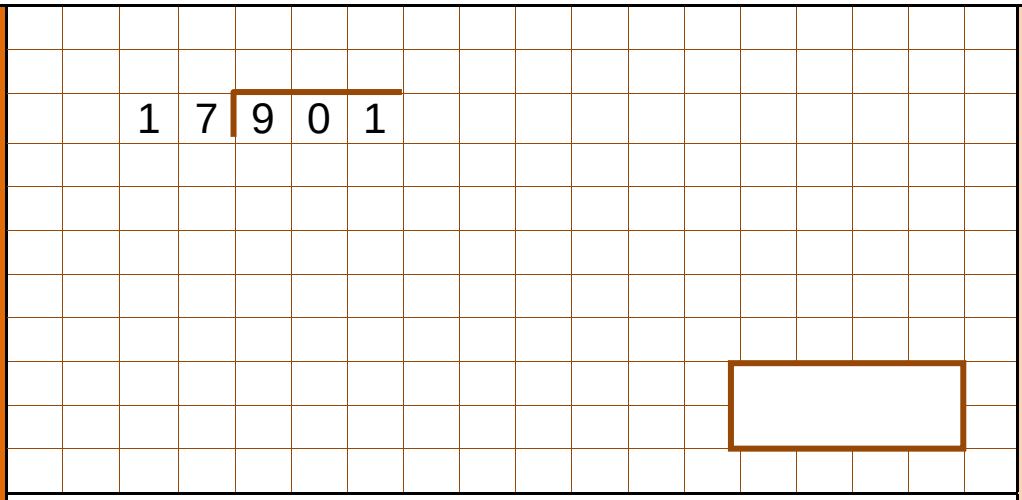
km

2 marks

Ref: 6C7b Divide numbers up to 4 digits by a two-digit number using the formal written method of short division and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

7

Show your method

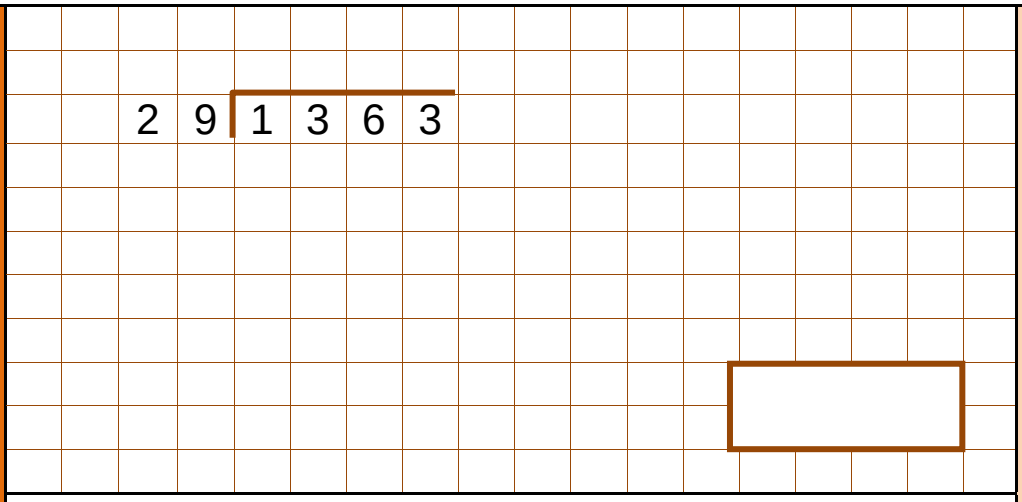


2 marks

Ref: 6C7b Divide numbers up to 4 digits by a two-digit number using the formal written method of short division and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

8

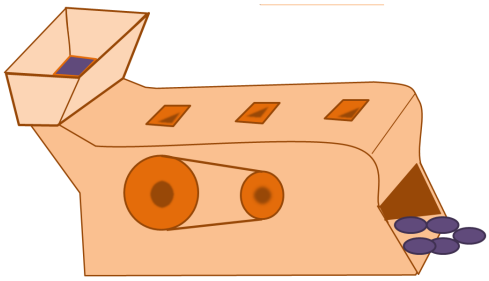
Show your method

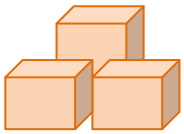


2 marks

Ref: 6C7b Divide numbers up to 4 digits by a two-digit number using the formal written method of short division and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

1 A machine makes 2,600 plastic coins per hour





They are packed into boxes – 29 coins per box

How many boxes can be filled with 2,600 coins.

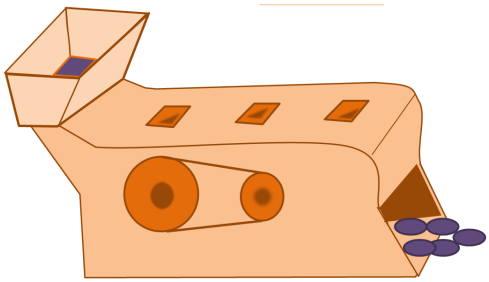
Show your Method

boxes

2 marks

Ref: 6C7c: Divide numbers up to 4 digits by a two digit number using the formal written method of short division where appropriate, interpreting remainders according to the context

2 A machine makes 2,605 plastic coins per hour



How many coins does it make per minute

Show your Method

coins

2 marks

Ref: 6C7c: Divide numbers up to 4 digits by a two digit number using the formal written method of short division where appropriate, interpreting remainders according to the context

3 Henry had a box of breakfast cereal grains weighing 1kg.

He counted each flake in the box and got 2500 cereal flakes.

How much does one cereal flake weigh

Show your Method

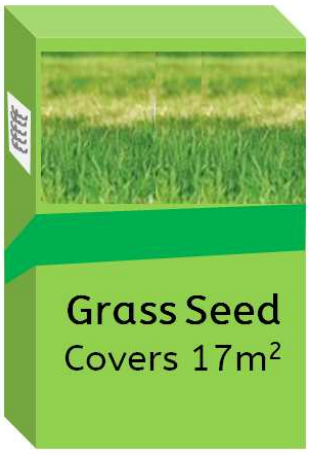
g

2 marks

Ref: 6C7c Divide numbers up to 4 digits by a two digit number using the formal written method of short division where appropriate, interpreting remainders according to the context

4 A school playing field needs seeding with grass seed.

The playing field measures 66m by 102m.



One box of grass seed covers $17m^2$

How many boxes will be needed to seed the pitch.

Show your Method

boxes

3 marks

Ref: 6C7a/6C7c: Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication

Divide numbers up to 4 digits by a two digit number using the formal written method of short division where appropriate, interpreting remainders according to the context

1 Henry picks a number more than 50

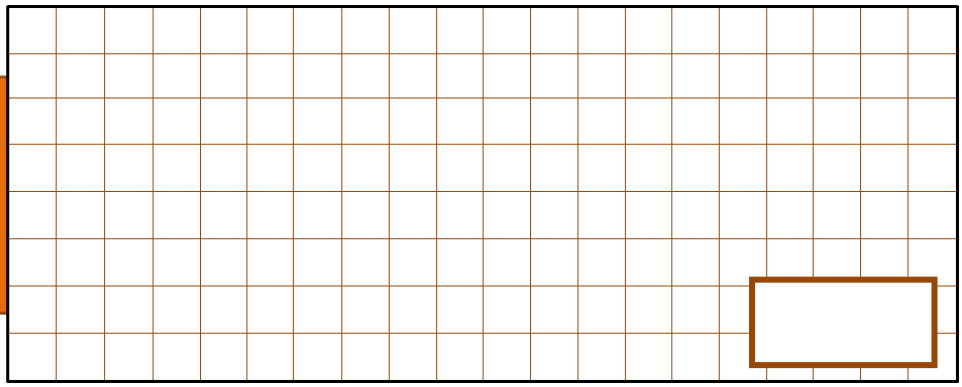
He divides it by 6 and then adds 11

He then multiplies this result by 2.5

His answer is 50

What was the number he started with?

Show your Method



2 marks

Ref: 6C8: Solve problems involving addition, subtraction, multiplication and division

2 Write the missing number

$\square \div 20 = 2.5$

1 mark

Ref: 6C8 Solve problems involving addition, subtraction, multiplication and division

3 $19 \times 16.8 = 319.2$

Use this fact to work out $319.2 \div 190$

1 mark

Ref: 6C8: Solve problems involving addition, subtraction, multiplication and division

4 Poppy buys 6 bananas.

She pays with a £2 coin.

This is her change.

What is the cost of one banana?

Show your Method

p

2 marks

Ref: 6C8: Solve problems involving addition, subtraction, multiplication and division

5 Poppy bakes ten cakes for the school fete.

It costs £1.25 to make a cake.

She cuts each cake into 8 equal portions.

She sells each portion of cake for 50p.

She sells all the cakes.

How much profit does she make altogether

Show your Method

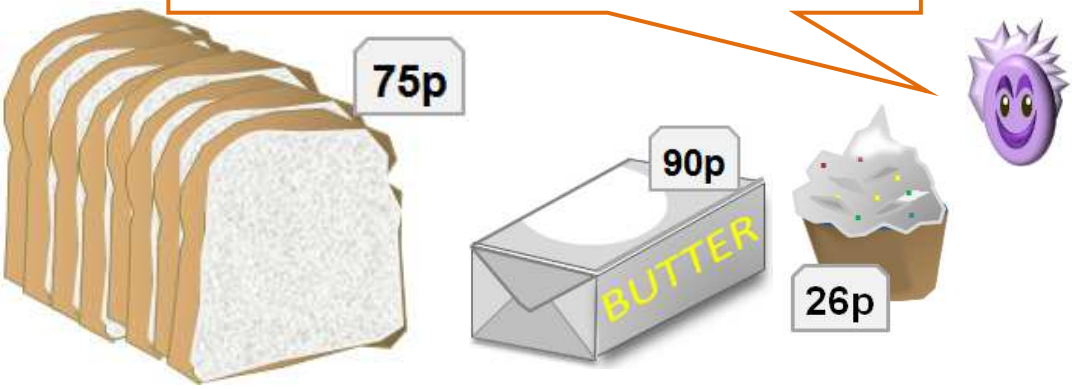
£

3 marks

Ref: 6C8: Solve problems involving addition, subtraction, multiplication and division

6

For our picnic we bought some food



We bought 2 loaves of bread,
1 pack of butter and 10 cakes

We will share the cost between 10 of us

How much will each of us pay?

Show your Method

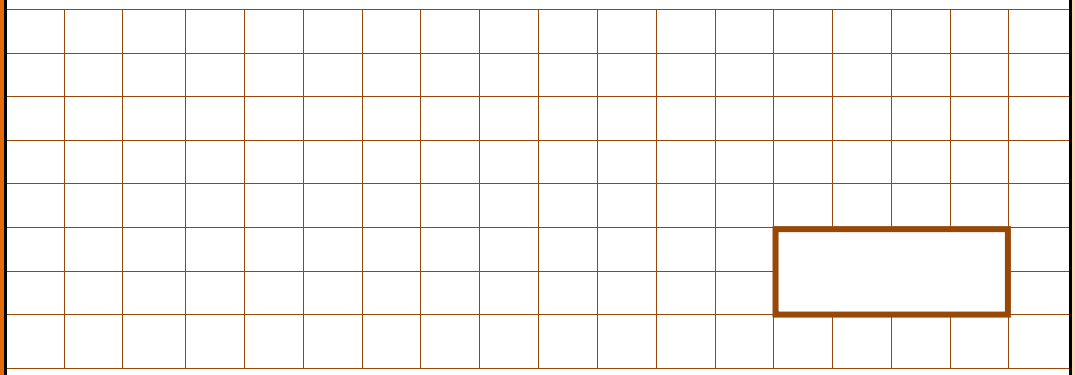
p

2 marks

Ref: 6C8: Solve problems involving addition, subtraction, multiplication and division

1

$4^2 - 5 =$

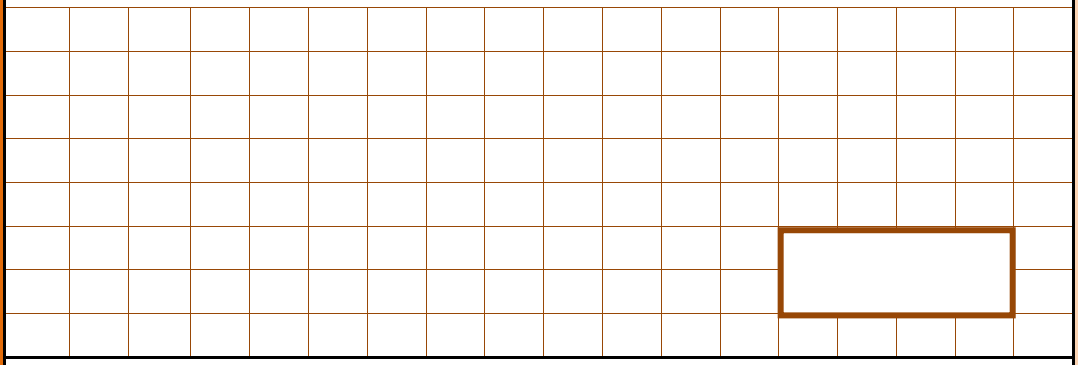


1 mark

Ref: 6C9: Use their knowledge of the order of operations to carry out calculations involving the four operations

2

$70 - 49 \div 7 =$

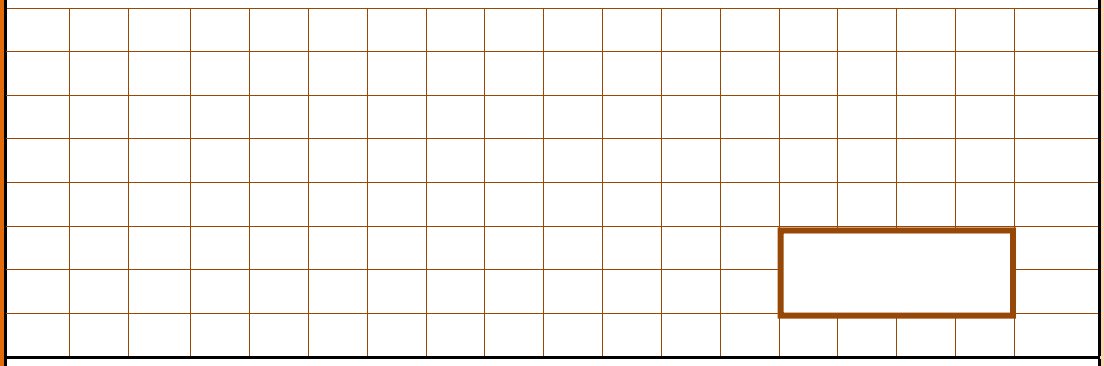


1 mark

Ref: 6C9: Use their knowledge of the order of operations to carry out calculations involving the four operations

3

$6 - 2 \times 3 =$

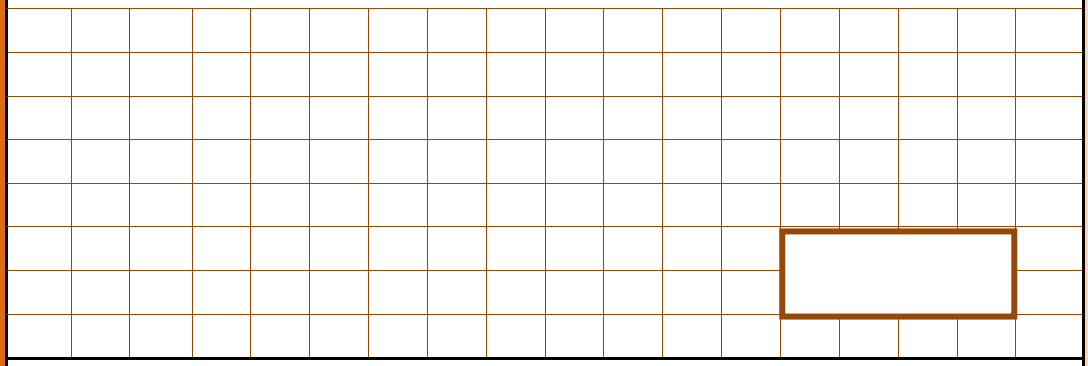


1 mark

Ref: 6C9: Use their knowledge of the order of operations to carry out calculations involving the four operations

4

$80 - 35 \div 5 =$

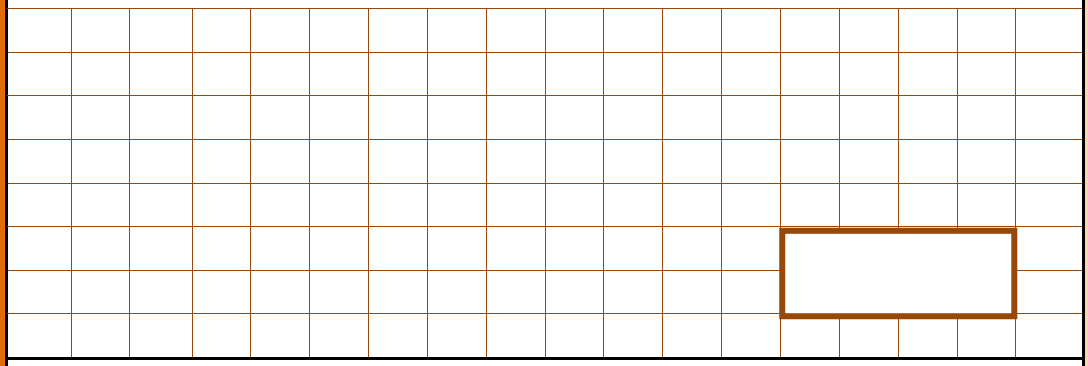


1 mark

Ref: 6C9: Use their knowledge of the order of operations to carry out calculations involving the four operations

5

$(80 - 35) \div 5 =$

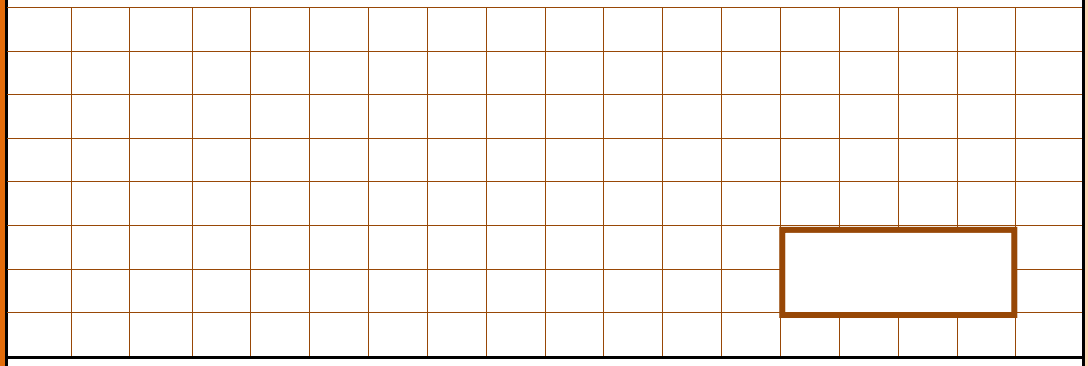


1 mark

Ref: 6C9: Use their knowledge of the order of operations to carry out calculations involving the four operations

6

$(100 + 10) - (35 + 10) \div 5 =$



1 mark

Ref: 6C9: Use their knowledge of the order of operations to carry out calculations involving the four operations

1

Write the two missing digits to make these equivalent fractions correct.

$$\frac{\square}{3} = \frac{8}{12} = \frac{6}{\square}$$

2 marks

Ref: 6F2 Use common factors to simplify fractions; use common multiples to express fractions in the same denomination

2

Write the two missing digits to make these equivalent fractions correct.

$$\frac{\square}{50} = \frac{70}{100} = \frac{14}{\square}$$

2 marks

Ref: 6F2 Use common factors to simplify fractions; use common multiples to express fractions in the same denomination

3 Write these fractions in their simplest form.

$\frac{15}{50} = \frac{\square}{\square}$ $\frac{27}{90} = \frac{\square}{\square}$

2 marks

Ref: 6F2 Use common factors to simplify fractions; use common multiples to express fractions in the same denomination

4 Write these fractions in their simplest form.

$\frac{48}{80} = \frac{\square}{\square}$ $\frac{36}{60} = \frac{\square}{\square}$

2 marks

Ref: 6F2 Use common factors to simplify fractions; use common multiples to express fractions in the same denomination

1 Order these fractions starting with the smallest

$\frac{9}{16}$ $\frac{5}{8}$ $\frac{7}{32}$ $\frac{1}{4}$

□ □ □ □

smallest

1 mark

Ref: 6F3: Compare and order fractions, including fractions >1

2 Order these fractions starting with the smallest

$1\frac{3}{4}$ $1\frac{2}{3}$ $1\frac{5}{6}$ $1\frac{5}{8}$ $1\frac{7}{12}$

□ □ □ □ □

smallest

1 mark

Ref: 6F3: Compare and order fractions, including fractions >1

3 Order these fractions starting with the smallest

$\frac{5}{3}$ $\frac{7}{4}$ $\frac{17}{12}$ $\frac{13}{8}$ $\frac{9}{6}$

□ □ □ □ □

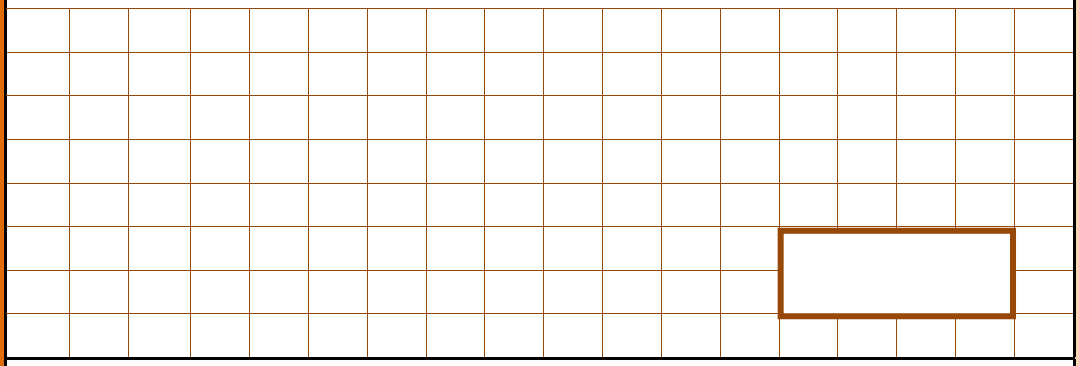
smallest

1 mark

Ref: 6F3: Compare and order fractions, including fractions >1

1

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

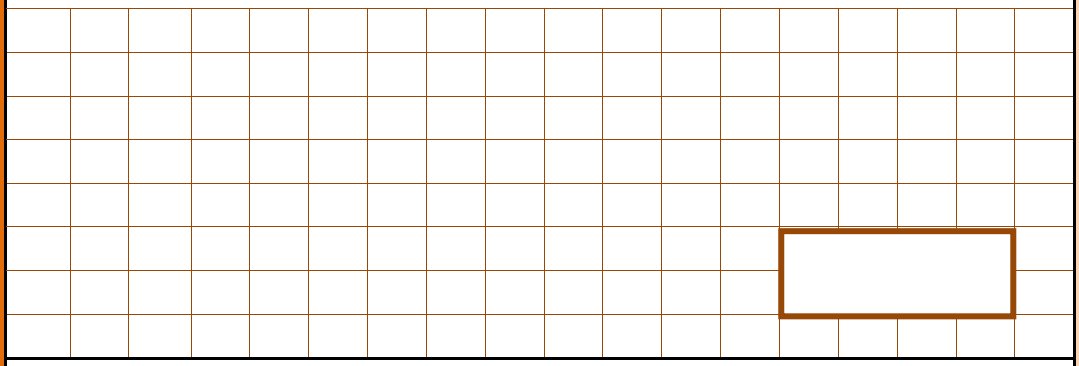


1 mark

Ref: 6F4: Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions

2

$$1\frac{4}{6} - 1\frac{1}{4} =$$

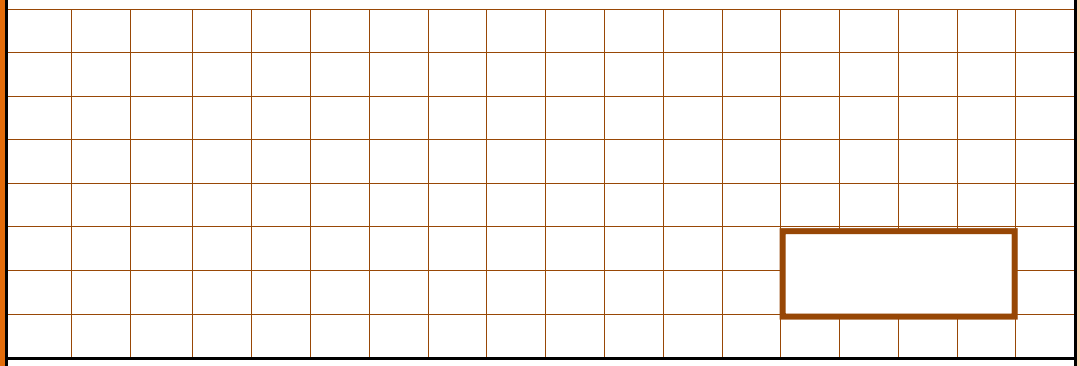


1 mark

Ref: 6F4: Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions

3

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

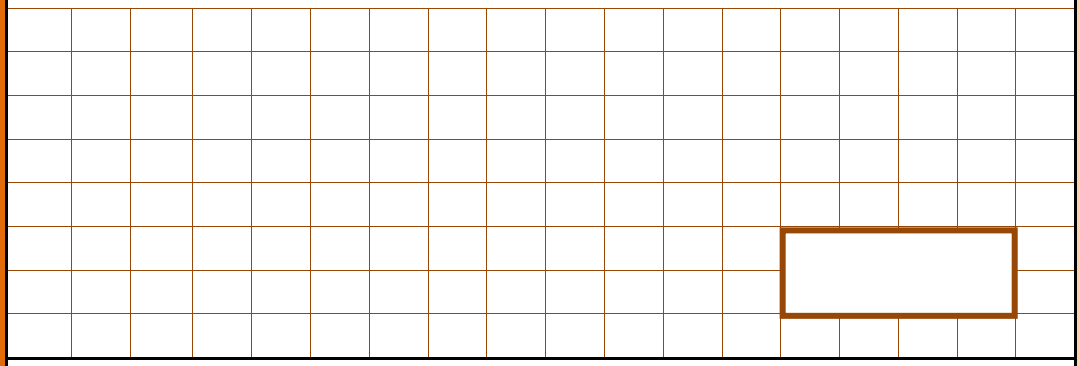


1 mark

Ref: 6F4: Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions

4

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



1 mark

Ref: 6F4: Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions

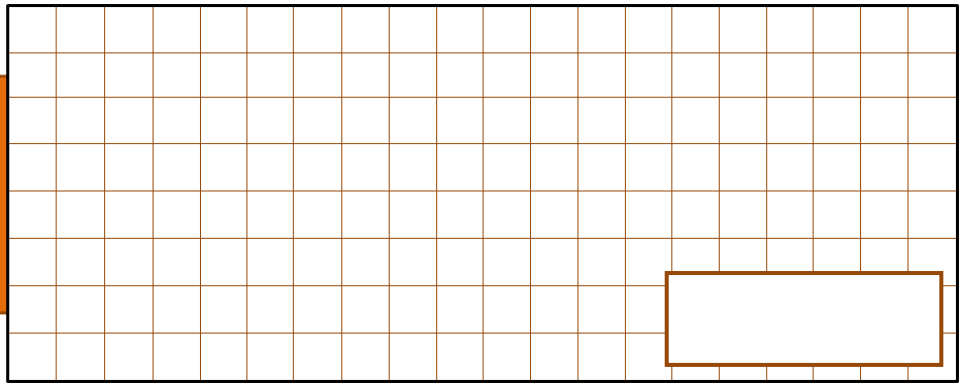
5 Poppy had a pizza.

She gave $\frac{1}{5}$ of the pizza to her mum.

She gave $\frac{1}{2}$ of the pizza to her brother.

What fraction does she have left?

Show your Method



2 marks

Ref: 6F4: Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions

6 Poppy had some marbles.

She gave $\frac{1}{3}$ of the marbles to Henry

She gave $\frac{5}{12}$ of the marbles to Granddad

What fraction does she have left?

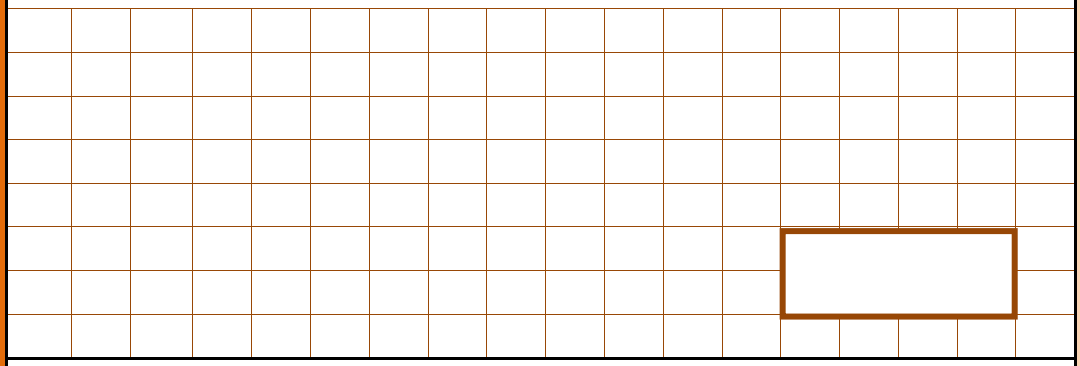
Show your Method

2 marks

Ref: 6F4: Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions

1

$$\frac{1}{6} \times \frac{1}{2} =$$

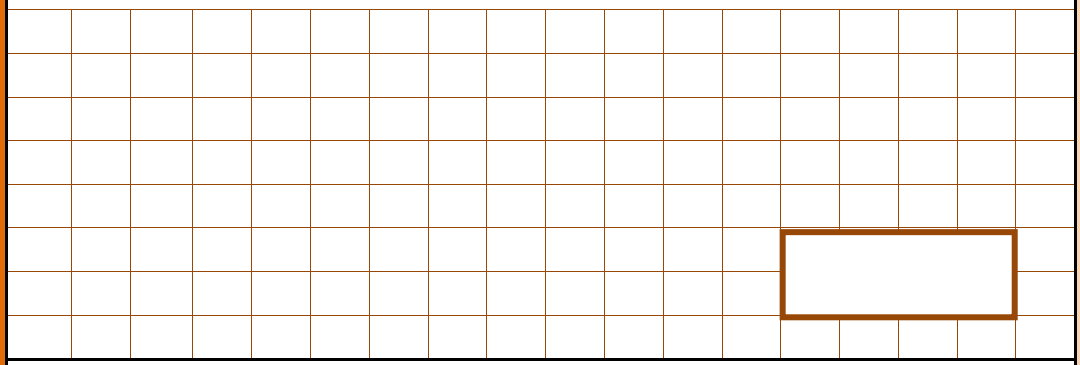


1 mark

Ref: 6F5a: Multiply simple pairs of proper fractions, writing the answer in its simplest form [eg: ¼ × ½= ⅛]

2

$$\frac{3}{4} \times \frac{1}{3} =$$

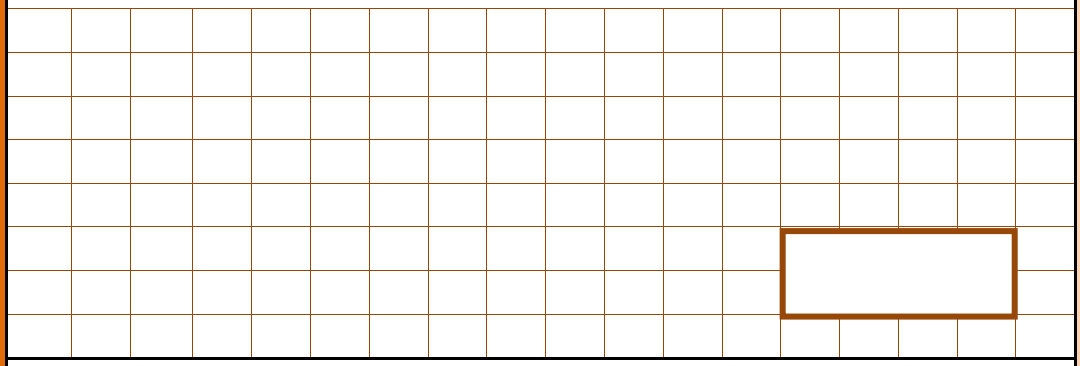


1 mark

Ref: 6F5a: Multiply simple pairs of proper fractions, writing the answer in its simplest form [eg: ¼ × ½= ⅛]

3

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

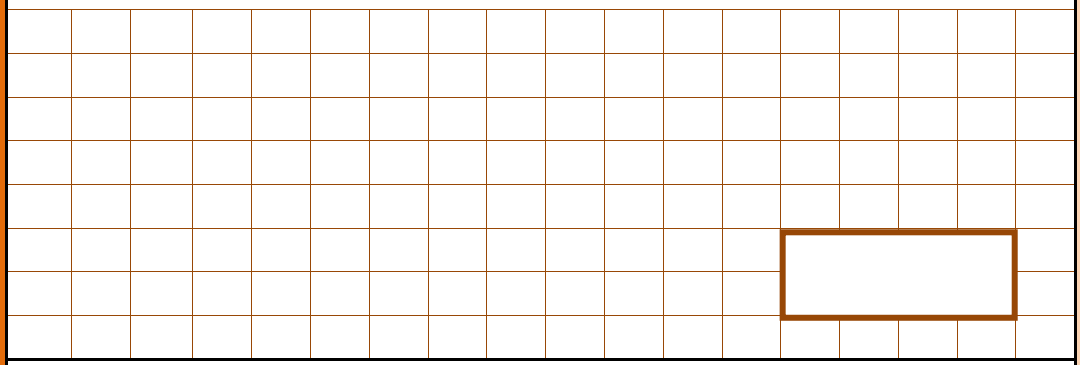


1 mark

Ref: 6F5a: Multiply simple pairs of proper fractions, writing the answer in its simplest form [eg: ¼ × ½= ⅛]

4

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

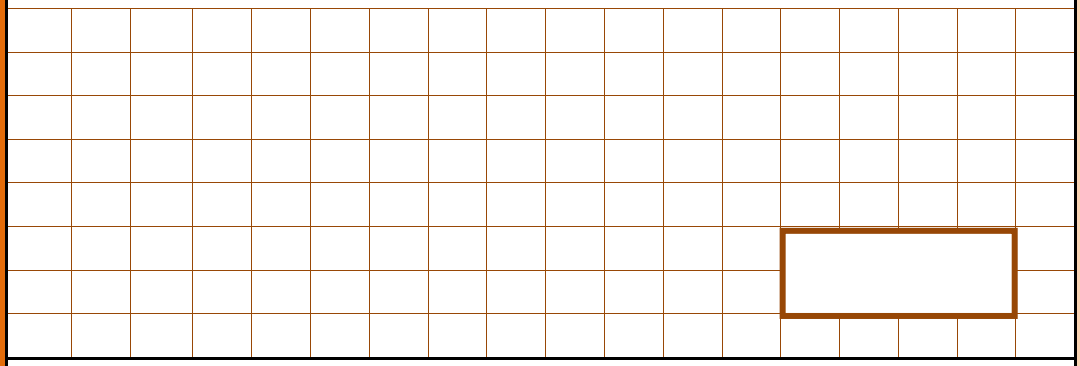


1 mark

Ref: 6F5a: Multiply simple pairs of proper fractions, writing the answer in its simplest form [eg: ¼ × ½= ⅛]

1

$\frac{4}{7} \div 2 =$

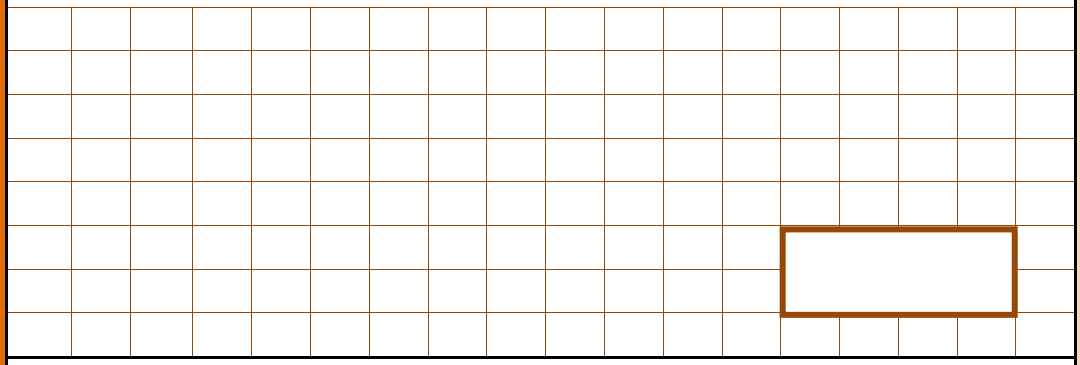


1 mark

Ref: 6F5b: Divide proper fractions by whole numbers [eg: ⅓ ÷ 2 = ⅙]

2

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



1 mark

Ref: 6F5b: Divide proper fractions by whole numbers [eg: ⅓ ÷ 2 = ⅙]

3

$\frac{1}{50} \div 2 =$

1 mark

Ref: 6F5b: Divide proper fractions by whole numbers [eg: ⅓ ÷ 2 = ⅙]

4

Henry had half a cake to divide equally between himself and 3 friends

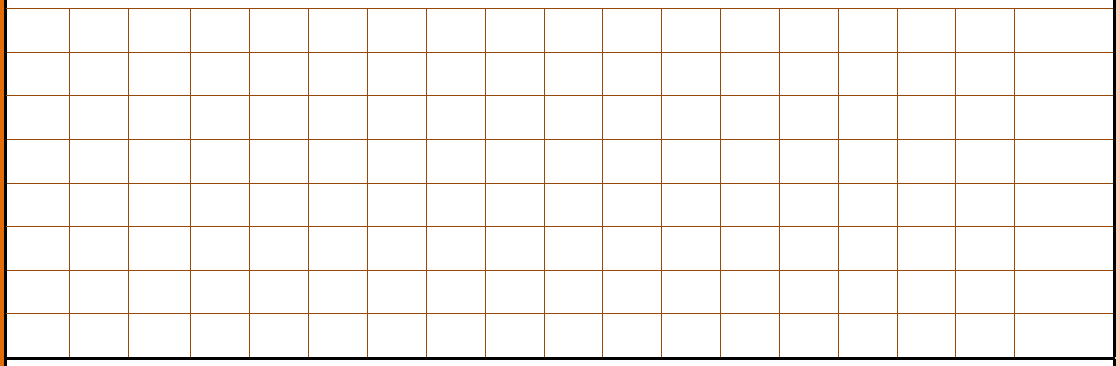
What fraction of cake did they each get

1 mark

Ref: 6F5b: Divide proper fractions by whole numbers [eg: ⅓ ÷ 2 = ⅙]

1

$3 \div 8 =$ ☐



1 mark

Ref: 6F6 Associate a fraction with division to calculate decimal fraction equivalents (eg: 0.375) for a simple fraction [e.g.: ⅜]

2

Write the decimal for these fractions

The first one has been done for you.

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

$\frac{5}{25} =$ ☐

$\frac{14}{50} =$ ☐

2 marks

Ref: 6F6 Associate a fraction with division to calculate decimal fraction equivalents (e.g.: 0.375) for a simple fraction [e.g.: ⅜]

3 Write the decimal for these fractions

The first one has been done for you.

$\frac{3}{4}$ = 0.75

$\frac{37}{100}$ = ☐

$\frac{13}{20}$ = ☐

2 marks

Ref: 6F6 Associate a fraction with division to calculate decimal fraction equivalents (e.g.: 0.375) for a simple fraction [e.g.: ⅜]

4 Poppy's mum made 2 cakes for her party.

The cakes were equally shared between 20 children.

How much cake did each child get.
Give your answer as a fraction and a decimal amount.

Show your Method

2 marks

Ref: 6F6 Associate a fraction with division to calculate decimal fraction equivalents (e.g.: 0.375) for a simple fraction [e.g.: ⅜]

5 At a school party there were 10 cakes.

They were equally shared between 80 children.

How much cake did each child get.
Give your answer as a fraction and a decimal.

Show your Method

2 marks

Ref: 6F6 Associate a fraction with division to calculate decimal fraction equivalents (e.g.: 0.375) for a simple fraction [e.g.: ⅜]

6 Granddad had a bag of 100 marbles.

He gave 15 of the marbles to Poppy.

How much of the original bag was left.
Give your answer as a fraction and a decimal.

Show your Method

2 marks

Ref: 6F6 Associate a fraction with division to calculate decimal fraction equivalents (e.g.: 0.375) for a simple fraction [e.g.: ⅜]

7 Granddad had a box of 40 marbles.

He gave 25 of the marbles to Henry.

He gave 15 of the marbles to Poppy.

What fraction of the original box did he give each of them
What decimal amount of the original box did he give each of them

Show your Method

Henry ☐ ☐ Poppy ☐ ☐

2 marks

Ref: 6F6 Associate a fraction with division to calculate decimal fraction equivalents (e.g.: 0.375) for a simple fraction [e.g.: ⅜]

1 Write the value of the thousandth in these numbers.

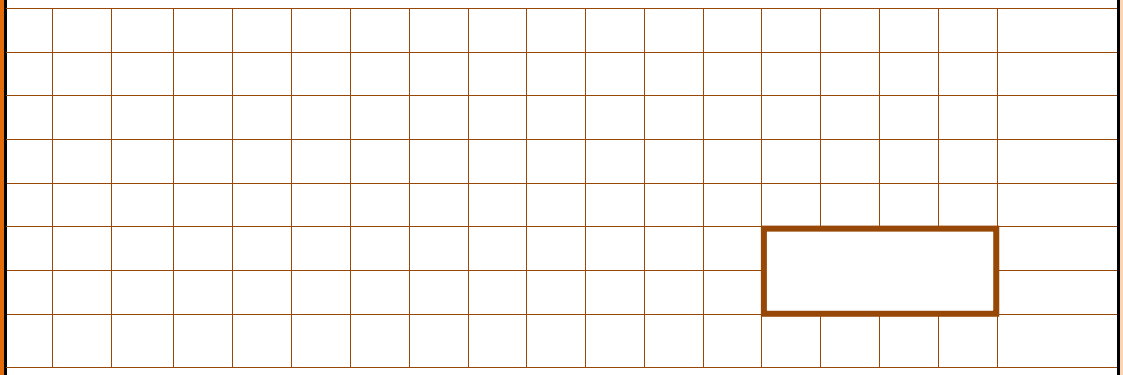
The first one has been done for you.

1.567	7
60.1234	
9.8706	
123.9867	

2 marks

Ref: 6F9a: Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places

2 $3.4 \div 100 =$

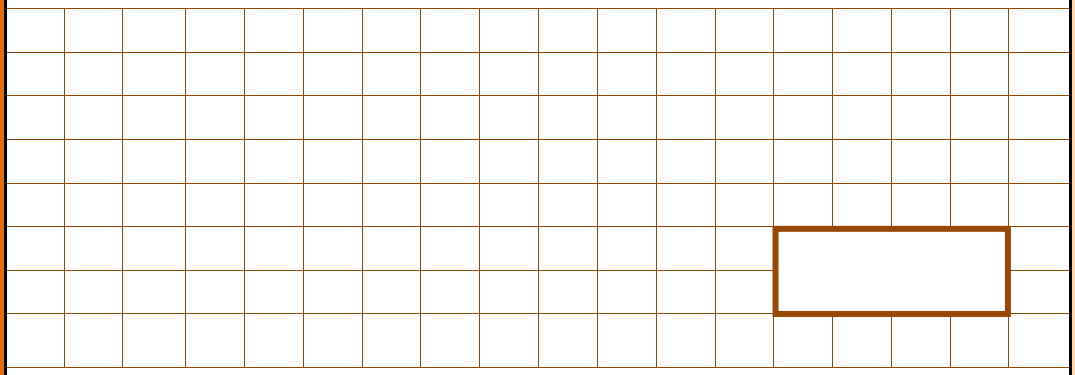


1 mark

Ref: 6F9a: Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places

3

$65.4 \div 1000 =$

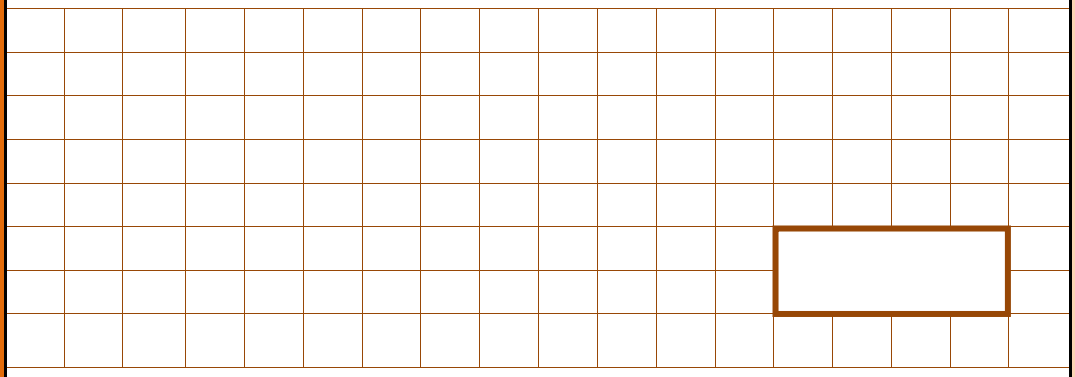


1 mark

Ref: 6F9a: Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places

4

$9.56 \times 100 =$

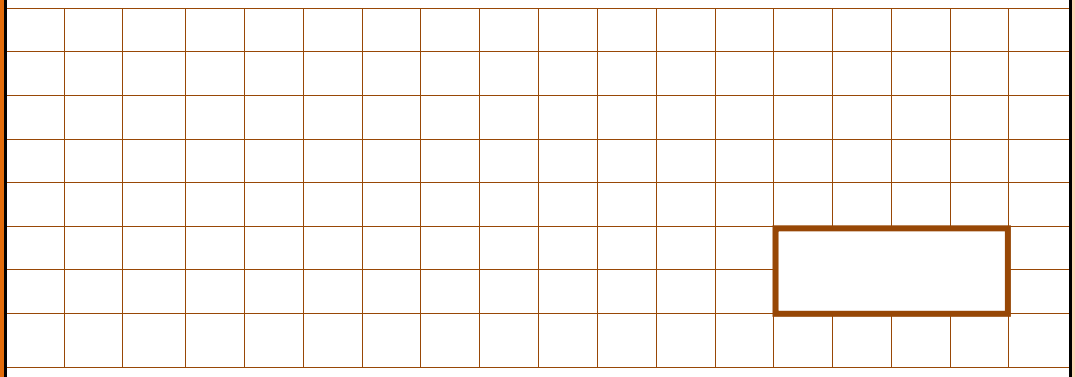


1 mark

Ref: 6F9a Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places

5

$1 \div 100 =$

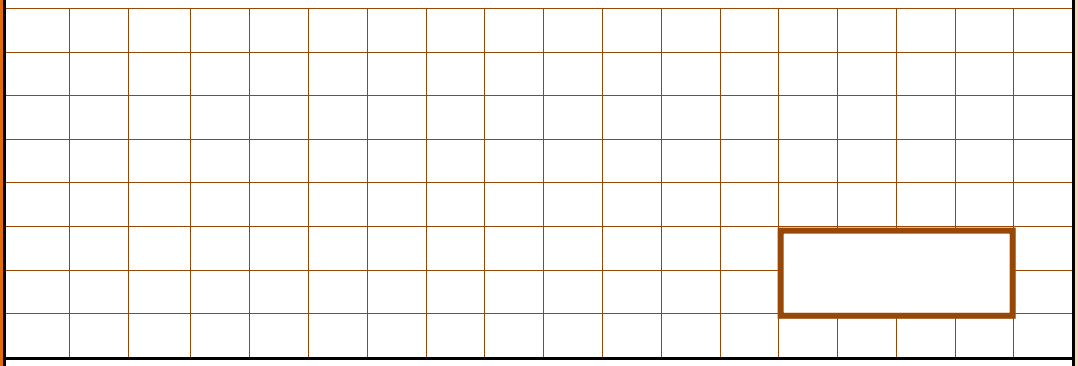


1 mark

Ref: 6F9a Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places

1

$16 \times 4.2 =$

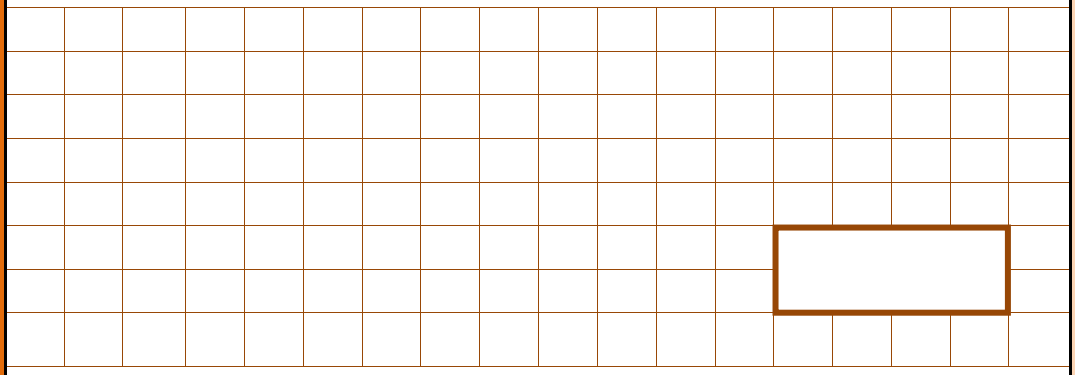


1 mark

Ref: 6F9b Multiply one-digit numbers with up to two decimal places by whole numbers

2

$2.64 \times 6 =$



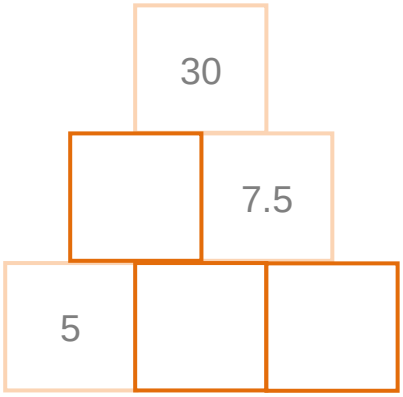
1 mark

Ref: 6F9b Multiply one-digit numbers with up to two decimal places by whole numbers

3 Look at the number pyramid

The number in a box is the product of the two numbers below it.

Write the missing numbers



2 marks

Ref: 6F9b: Multiply one-digit numbers with up to two decimal places by whole numbers

1 A stack of 15 tokens weighs 200 grams.

What is the weight of one token to one decimal place

Show your Method

g

2 marks

Ref: 6F9c: Use written division methods in cases where the answer has up to two-decimal places

2 A bag of 50 marbles weighs 490 grams.

What is the weight of one marble to one decimal place

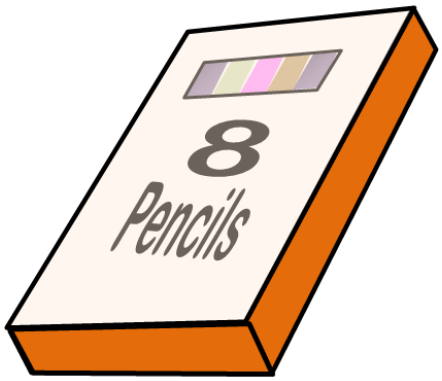
Show your Method

g

2 marks

Ref: 6F9c: Use written division methods in cases where the answer has up to two-decimal places

3 A box of 8 pencils costs £3.



How much are the pencils each to the nearest penny.

Show your Method

g

2 marks

Ref: 6F9c: Use written division methods in cases where the answer has up to two-decimal places

4 A basket of 8 oranges weighed 962 grams

Calculate the average weight of one orange
Round your answer to one decimal place.

Show your Method

g

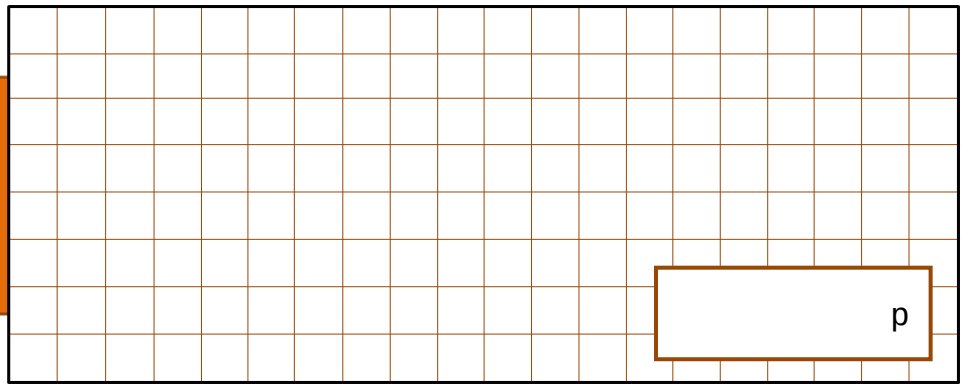
2 marks

Ref: 6F9c: Use written division methods in cases where the answer has up to two-decimal places

1 Half a kilogram of silver costs £230.

What is the cost of one gram of silver?

Show your Method

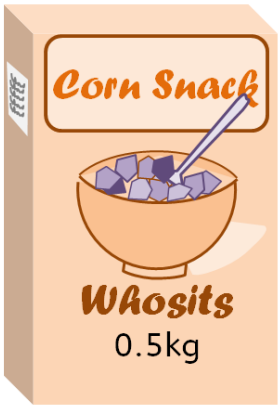


p

2 marks

Ref: 6F10: Solve problems which require answers to be rounded to specified degrees of accuracy

2 A box of snack cereals weighs 0.5kg.



The box costs £2.40.

How much does 20gms of cereals cost to the nearest penny.

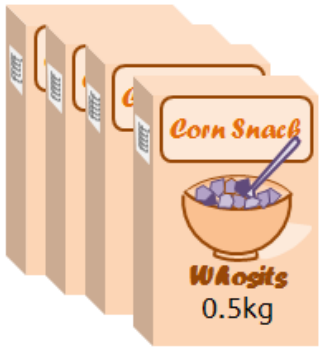
Show your Method

p

2 marks

Ref: 6F10: Solve problems which require answers to be rounded to specified degrees of accuracy

3 Four boxes of snack cereals costs £9.20



Each box weighs 0.5kg

How much does 20gms of cereals cost to the nearest penny.

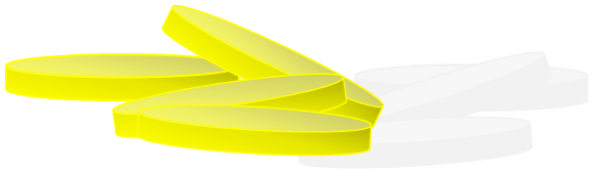
Show your Method

p

2 marks

Ref: 6F10: Solve problems which require answers to be rounded to specified degrees of accuracy

4 A gold coins costs £900



One coin weighs 28gms

What is the cost of one gram of gold?
Round your answer to 1 decimal place

Show your Method

£

2 marks

Ref: 6F10: Solve problems which require answers to be rounded to specified degrees of accuracy

1 Poppy had 100 marbles.

She gave $\frac{3}{5}$ of the marbles to Henry.

She gave 35% to Granddad

How many marbles does she have left?

Show your Method

2 marks

Ref 6F11: Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

2 Henry had a pizza.

He gave 12.5% of the pizza to mum.

He gave 25% of the pizza to Poppy.

What **fraction** does he have left?

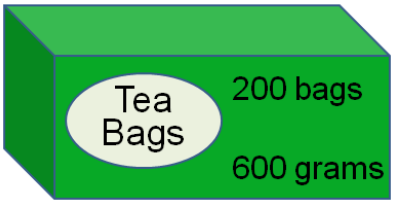
Show your Method

2 marks

Ref 6F11: Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

3 A box of tea bags has 200 bags.

It weighs 600 grams



Poppy used 30% of the tea bags.

How many tea bags are left and what do they weigh?

Show your Method

tea bags

g

3 marks

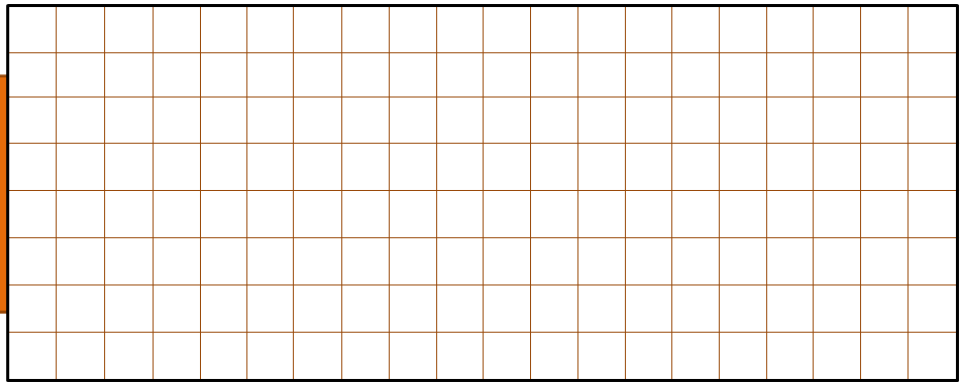
Ref 6F11: Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

4 Poppy says that 0.45 is bigger than $\frac{22}{50}$

Is Poppy correct (✓)? Show your working

Y ☐ N ☐

Show your Method



2 marks

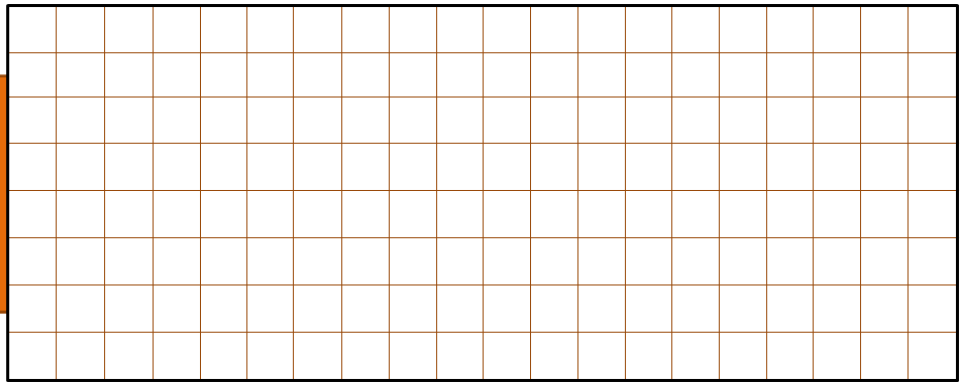
Ref 6F11: Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

5 Henry says that 56% is smaller than $\frac{13}{25}$

Is Henry correct (✓)? Show your working

Y ☐ N ☐

Show your Method



2 marks

Ref 6F11: Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts