

5.1

Total Marks (out of 40)	
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Name	
Date	

Section 1:

Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.

1

Write these numbers in the correct position on the sorting diagram.

20

16

24

30

	multiple of 5	not a multiple of 5
multiple of 6		
not a multiple of 6		

2 marks

2 The factor pairs of 14 are:

1

and

14

2

and

7

Write all the factor pairs of 32

and

and

and

2 marks

3 Underline all the multiples of 80.

160

280

880

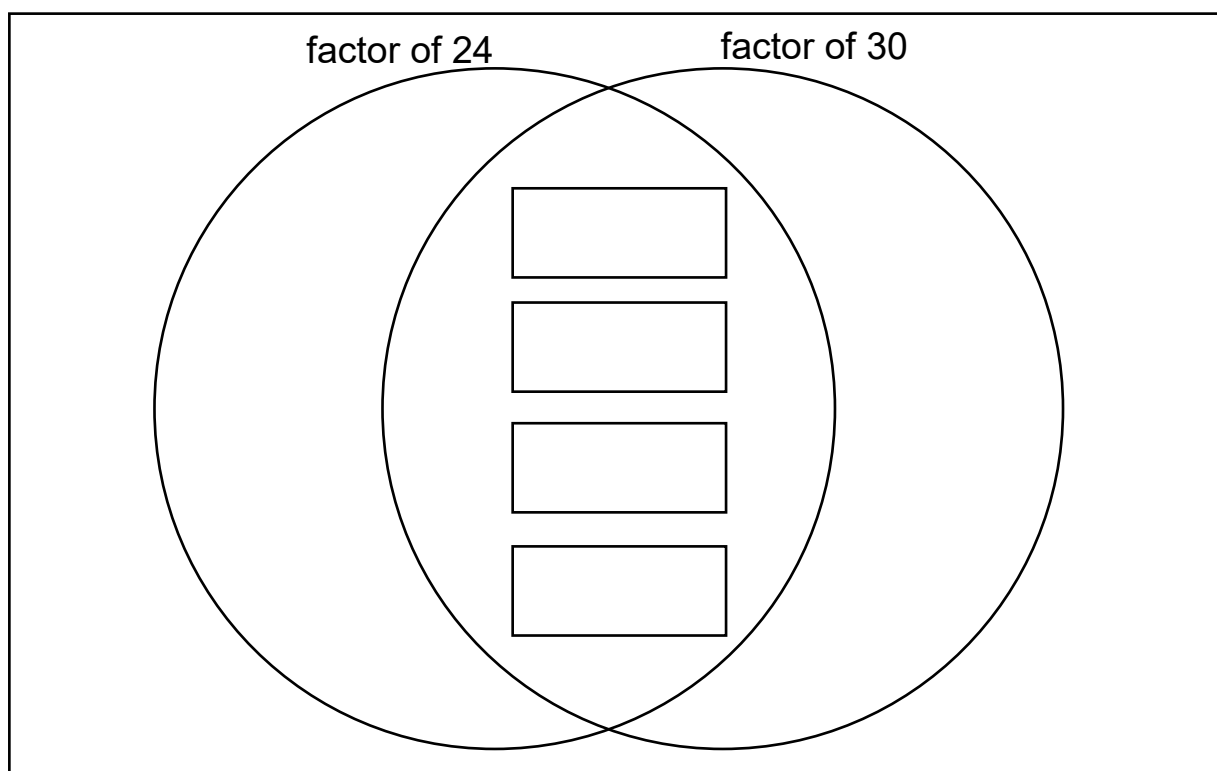
440

320

2 marks

4 There are 4 numbers which are **both** a factor of 24 **and** a factor of 30

Write them in the boxes on the Venn diagram.

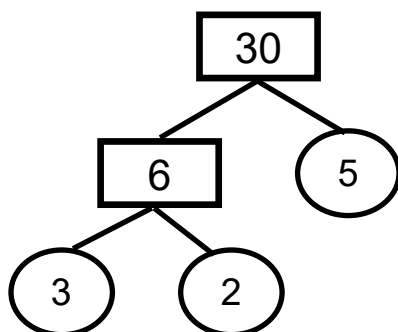


2 marks

Section 2:

Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers *and* establish whether a number up to 100 is prime and recall prime numbers up to 19.

- 5** Any number can be written as a product of its **prime factors**, for example:



$$30 = 3 \times 2 \times 5$$

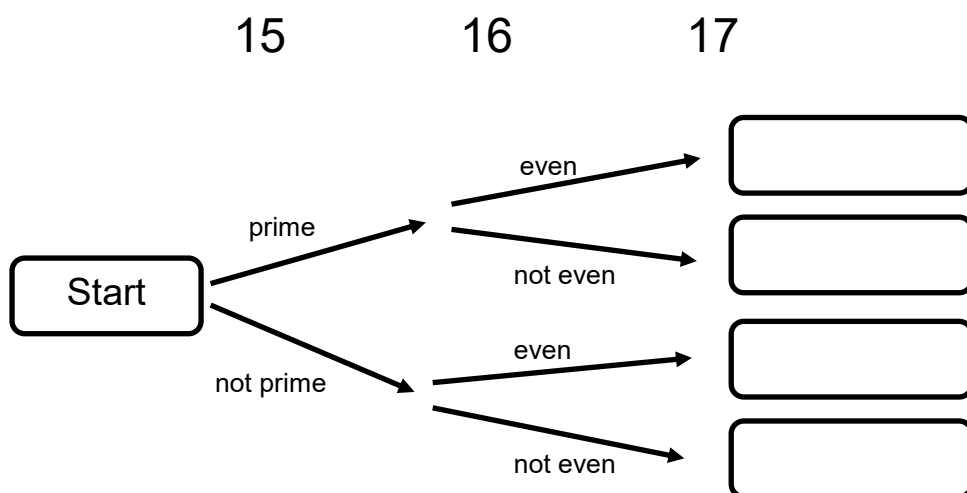
Write **42** as a product of its **prime factors**.

42 =

2 marks

- 6** Here is a diagram for sorting numbers.

Write these three numbers in the correct boxes.



2 marks

7 Marcus thinks of **2 prime numbers**.

He adds them together. His answer is 16.

Write the 2 prime numbers he was thinking of.

and

1 mark

8 Underline all the **prime** numbers.

60 61 62 63 64 65 66 67

2 marks

Section 3:

Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.

9 Here are six cards.

x 10

x 100

x 1000

÷ 10

÷ 100

÷ 1000

Use a card to complete each calculation.

$42 \times \boxed{} = 4200$

$4.2 \times \boxed{} = 0.42$

$42 \times \boxed{} = 0.042$

$4.2 \times \boxed{} = 4200$

2 marks

10

Complete these calculations.

$$307 \div 100 = \boxed{}$$

$$60.18 \times 10 = \boxed{}$$

$$\boxed{} \times 10 = 320.6$$

$$1900 \div \boxed{} = 100$$

2 marks

Section 4:

recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)

11

Put a tick next to each **correct** statement.

$$\boxed{5^2 = 5 \times 2}$$

$$\boxed{5^2 = 5 + 5}$$

$$\boxed{5^2 = 5 \times 5}$$

$$\boxed{4^3 = 4 \times 4 \times 4}$$

$$\boxed{4^3 = 4 + 4 + 4}$$

$$\boxed{4^3 = 4 \times 3}$$

2 marks

12

Complete this calculation.

$$7^2 - 2^3 = \boxed{}$$

1 mark

13 A square lawn is 12 metres wide.

What is the area of the lawn?

square meters

1 mark

14 I squared a number and got 64.

What number did I start with?

1 mark

Section 5:

multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers

and

divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context

and

solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign

15 Calculate 132×6

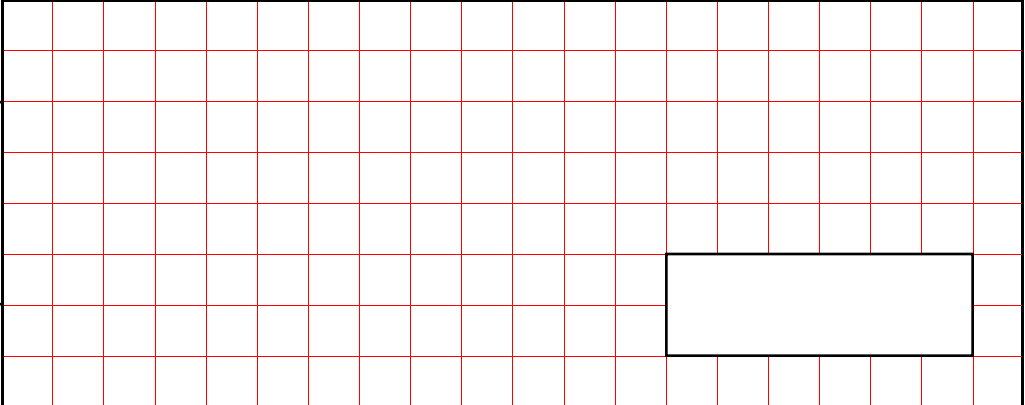
Show
your
method

2 marks

16

Calculate 507×24

Show your method

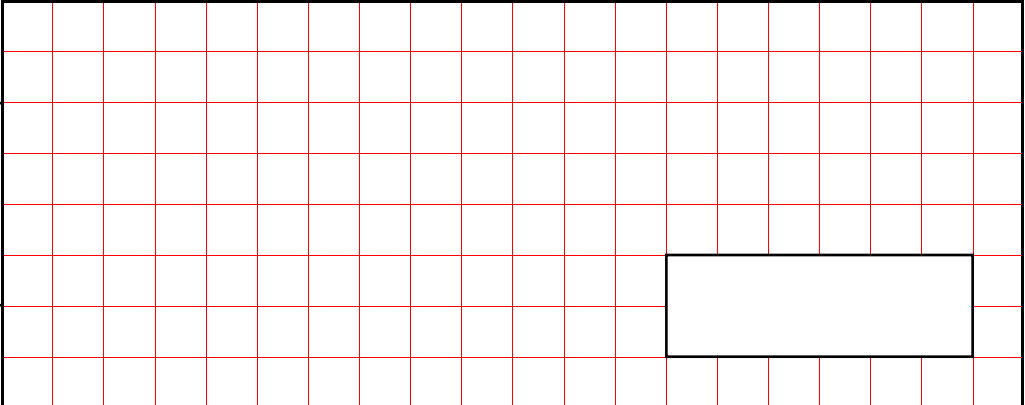


2 marks

17

Calculate $2608 \div 8$

Show your method



2 marks

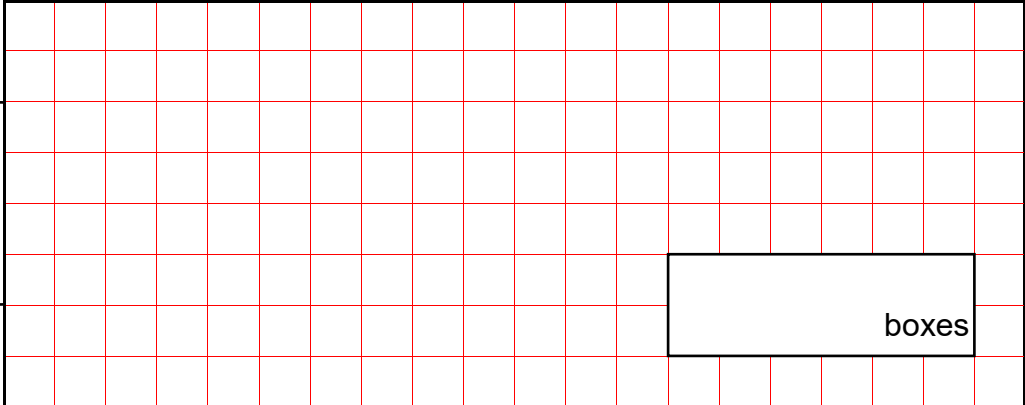
18

Eggs are packed into boxes of six.

Freeman farm has 853 eggs for packing.

How many boxes can be **filled**?

Show your method



2 marks

[illegible]

72p per 100g



64p per 100g

Show
your
method

[illegible]

3 marks

20 Look at these signs.



Write the correct sign in each box

$$4^2 + 3^2$$

5²

124 x 0

$$124 \div 2$$

6.04×10

$$0.64 \times 100$$

432 x 12



432 x 4 x 3

10,000

10^3

5 marks