

5.2

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

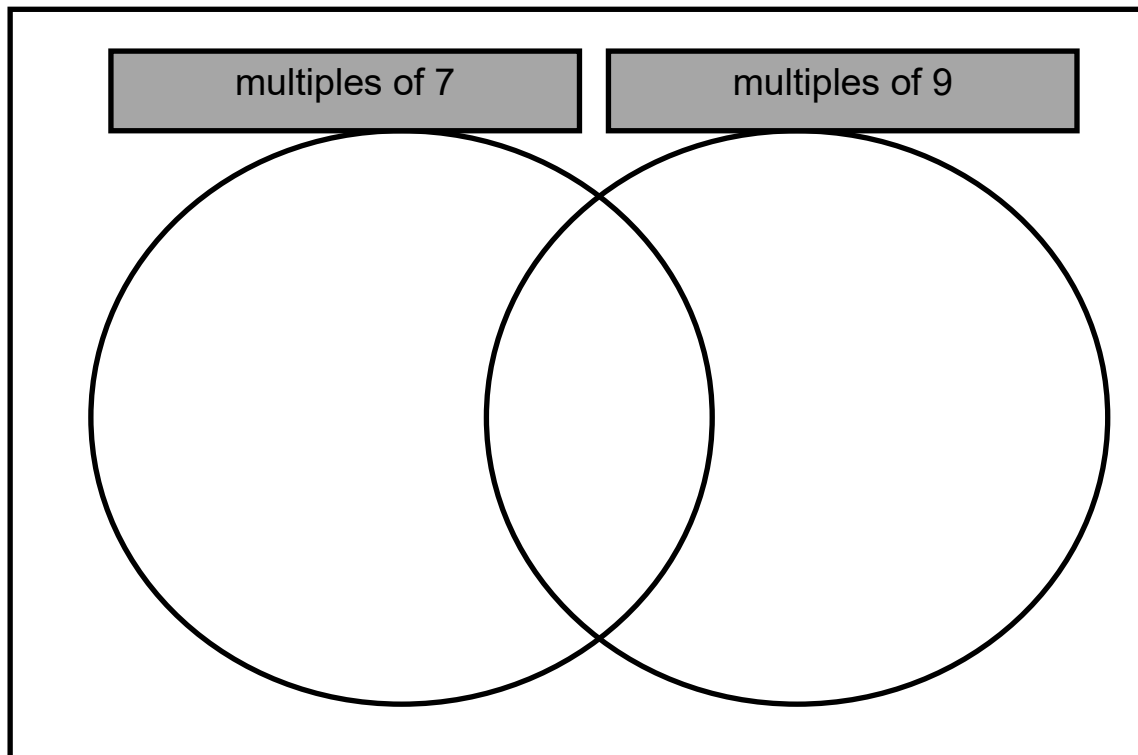
Write these numbers in the correct position on the sorting diagram.

18

28

38

63



2 marks

2 The factor pairs of 14 are:

1

and

14

2

and

7

Write all the factor pairs of 24

and

and

and

and

2 marks

3 Underline all the multiples of 60

180

440

360

660

560

2 marks

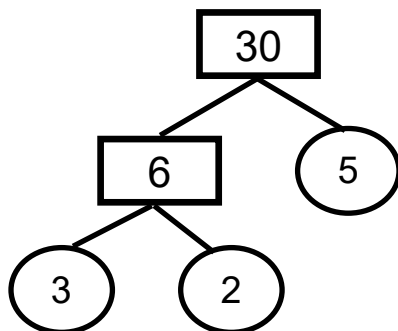
4 Write all the factors of 30 that are **also** factors of 50

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 **50** as a product of its **prime factors**.

50 =

2 marks

- 6** Here are three digit cards.



Choose two cards each time to make the following two-digit numbers.

A prime number

A common multiple of 4 and 9

A common factor of 32 and 48

2 marks

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

He adds them together. His answer is 12.

Write the 2 prime numbers he was thinking of.

and

1 mark

8 Underline all the **prime** numbers.

27 28 29 30 31 32 33 34

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.

$17 \times \boxed{} = 1700$

$1.7 \times \boxed{} = 0.17$

$17 \times \boxed{} = 0.017$

$1.7 \times \boxed{} = 1700$

2 marks

10

Complete these calculations.

$$405 \div 100 = \boxed{}$$

$$10.5 \times 10 = \boxed{}$$

$$\boxed{} \times 10 = 20.9$$

$$3500 \div \boxed{} = 100$$

2 marks

Section 4:

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

11Circle the **two** square numbers.

10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29

2 marks

12

Complete this calculation.

$$3^2 + 2^3 = \boxed{}$$

1 mark

13 I squared a number and got 81.

What number did I start with?

1 mark

14 I cubed a number and got 125.

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 418×6

Show
your
method

2 marks

16

Calculate 6012×35

Show your method

2 marks

17

Calculate $5728 \div 8$

Show your method

2 marks

18

Paper cups are sold in packs of 8.

Mr Jones need 250 cups.



How many packs does he need to buy?

Show your method

2 marks

19 This is how much it costs to visit a museum.

Class 5 went to the museum on a school trip.

There were 30 children and 5 adults.

MUSEUM

Adults £6.50

Children £3.50

How much did it cost?

Show
your
method

3 marks

20

Look at these signs.



Write the correct sign in each box

10^3

$10 \times 10 \times 10$

493×0

$493 \div 2$

7.08×10

0.78×100

198×12

$198 \times 4 \times 3$

$1^2 + 2^2 + 3^2$

4^2

5 marks