method maths

interactive practice papers

BOOSTER WORKBOOK

Calculation C5

Properties of number

1 Circle **three** numbers that add to make a **multiple of 10**

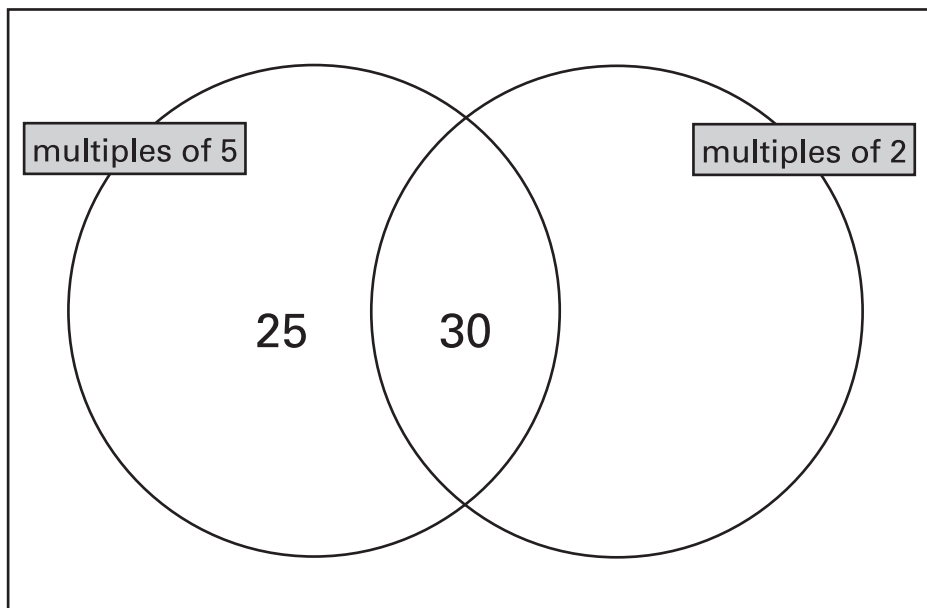11   12   13   14   15   16   17   18   19

2 Write **each of** these numbers in its correct place on the sorting diagram.

40   **8**   **15**

multiples of 5   multiples of 2

25   30

3

Use **each** number card **once** to make the answer to each calculation an **even** number.

| 3 | 4 | 5 |

5 × ☐

12 ÷ ☐

9 + ☐

4

Complete this sentence.

Every number with a factor of **10** must also have factors of

☐ and ☐ and ☐

5   John says,

'Every multiple of 5 ends in 5'

Is he correct?
Circle Yes or No.

✎   Yes / No

Explain how you know.

………………………………………………………………………

………………………………………………………………………

………………………………………………………………………

6   Circle all the **multiples of 8** in this list of numbers.

✎   18   32   56   68   72

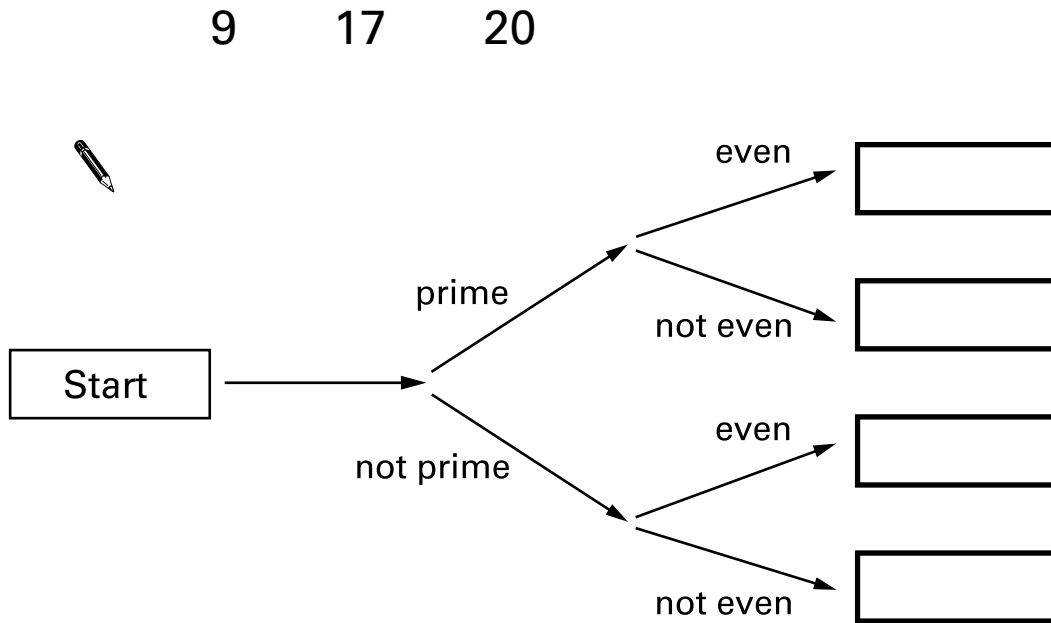**7** Here is a diagram for sorting numbers.

Write these three numbers in the correct boxes.

You may not need to use all of the boxes.

9   17   20

```
                                          even
                                                  ┌──────────┐
                                                  │          │
                             prime                └──────────┘
                                       not even
                                                  ┌──────────┐
 ┌──────────┐                                     │          │
 │  Start   │──────────►                          └──────────┘
 └──────────┘             not prime      even
                                                  ┌──────────┐
                                                  │          │
                                                  └──────────┘
                                       not even
                                                  ┌──────────┐
                                                  │          │
                                                  └──────────┘
```

2 marks

8 Here is a sorting diagram for numbers.
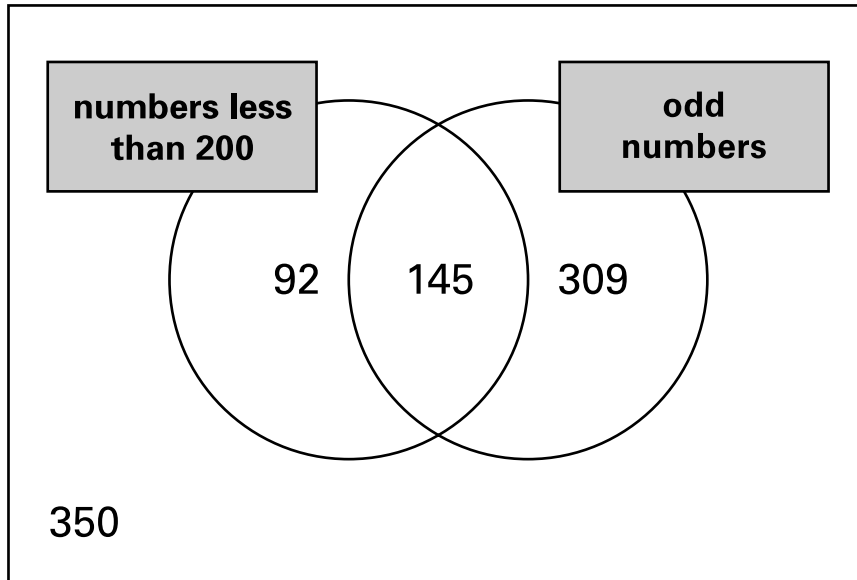
Write a number **less than 100** in each space.

	even	**not** even
a square number		
not a square number		

2 marks

9 Write these numbers in the correct places on the Venn diagram.

Some numbers are already placed.
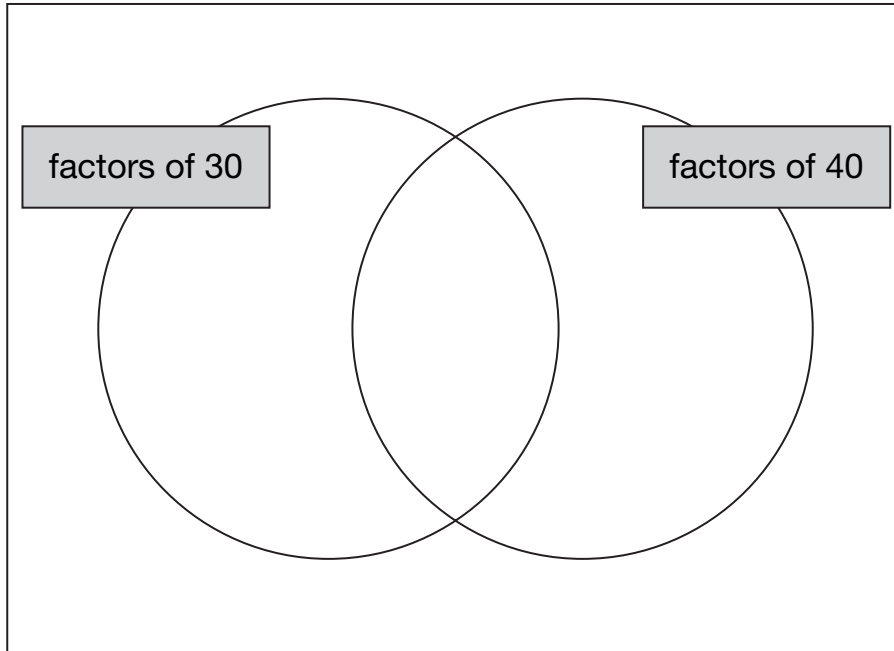
$$99 \qquad 170 \qquad 221$$

| numbers less than 200 | | odd numbers |

92   145   309

350

2 marks

10 Write these numbers in the correct places on the diagram.

5   6   7   8

factors of 30   factors of 40

2 marks

11 Here is a sorting diagram with four sections, **A**, **B**, **C** and **D**.

	multiple of 10	not a multiple of 10
multiple of 20	**A**	**B**
not a multiple of 20	**C**	**D**

Write a number that could go in section **C**.

Section **B** can never have any numbers in it.

Explain why.

12 Here is a diagram for sorting numbers.

Write **one number** in each white section of the diagram.

	less than 1000	1000 or more
multiples of 20		
not multiples of 20		

13 Write **one** number which fits **all three** of these statements.

It is a multiple of 4

It is a multiple of 6

It ends in '8'

1 mark

Explain why a number which ends in '3' **cannot** be a multiple of 4

1 mark

14 Here are four digit cards.

| 7 | 5 | 2 | 1 |

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

The first one is done for you.

an even number

| **5** | **2** |

a multiple of 9

a square number

a factor of 96

2 marks

15 Write all the factors of 30 which are **also** factors of 20

....

2 marks

16 Julie says,

'I added three odd numbers and my answer was 50'

Explain why Julie cannot be correct.

✎

....

....

....

1 mark

17 Find two **square numbers** that total 45

✎ [   ] + [   ] = 45

1 mark

18 Circle the **two** prime numbers.

29   39   49   59   69

19 Two whole numbers are each **between 50 and 70**

They multiply to make 4095

Write in the missing numbers.

$$\boxed{} \times \boxed{} = 4095$$

20 Write the **three prime numbers** which multiply to make **231**

$$\boxed{} \times \boxed{} \times \boxed{} = 231$$

1 mark

21 Debbie has a pack of cards numbered from 1 to 20

She picks four different number cards.

| ? | ? | ? | ? |

Exactly three of the four numbers are multiples of 5

Exactly three of the four numbers are even numbers.

All four of the numbers add up to less than 40

Write what the numbers could be.

| ☐ | ☐ | ☐ | ☐ |

1 mark