Q1.

Tick the numbers that are common factors of both **12 and 18**

2 ☐

3 ☐

6 ☐

9 ☐

12 ☐

2 marks

Q2.

Write three factors of 30 that are **not** factors of 15

☐ ☐ ☐

2 marks

Q3.

1 and 48 is factor pair of 48

Find three other factor pairs of 48

☐ and ☐

☐ and ☐

☐ and ☐

2 marks

Q4.

This three-digit number has **2** and **7** as **factors**.

2 9 4

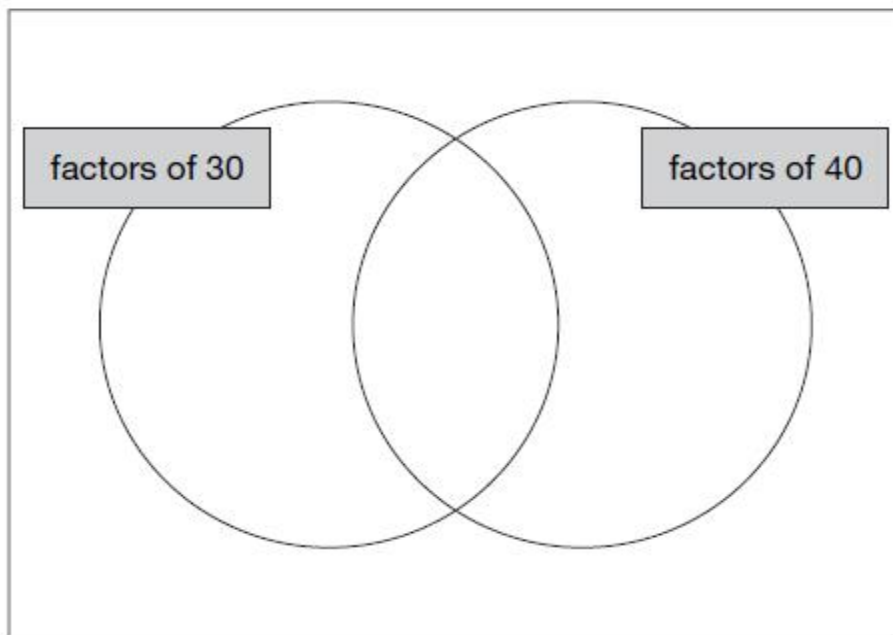Write another **three-digit** number which has **2** and **7** as **factors**.

Q5.

Write these numbers in the correct places on the diagram.

5   **6**   **7**   **8**

Q6.

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

Q7.

Complete this sentence.

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

☐ and ☐ and ☐

1 mark

Mark schemes

Q1.

Award **TWO** marks for only three correct boxes ticked, as shown:

2 ☑

3 ☑

6 ☑

9 ☐

12 ☐

Award **ONE** mark for:

• only two correct boxes ticked and no incorrect boxes ticked

OR

• three correct boxes ticked and one incorrect box ticked.
  Accept alternative unambiguous positive indications, e.g. Y.
  Up to 2 marks

[2]

Q2.

Award **TWO** marks for any three of the following numbers written in any order:

• 2
• 6
• 10
• 30

If the answer is incorrect, award **ONE** mark for two numbers correct.
  Up to 2m

[2]

Q3.

Award **TWO** marks for any three of the following pairs, as shown. Factor pairs can be in either order.

2 and 24

3 and 16

4 and 12

6 and 8

Award **ONE** mark for any two of the above pairs.

[2]

Q4.

Any 3-difit number that is a multiple of 14, eg:

3	0	8

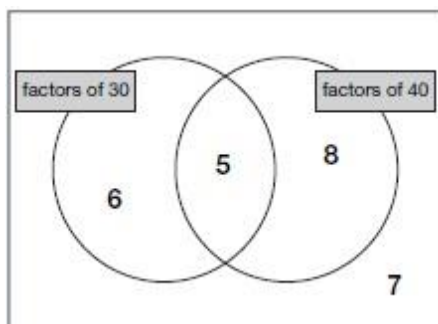*Any acceptable answers will be even numbers which divide by 7*
Do not *accept '0' in the hundreds box.*
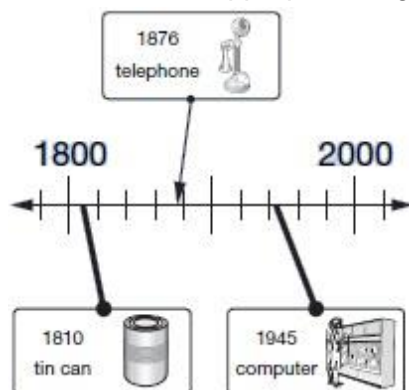*Only **three digit** numbers are acceptable.*

[1]

Q5.

Award **TWO** marks for numbers written in the correct regions as shown:

If the answer is incorrect, award **ONE** mark for any three numbers written in the correct regions.

Do not *accept numbers written in more than one region.*
Accept alternative indications such as lines drawn from the numbers to the appropriate regions of the diagram.

Lines need not touch the time line provided the intended accuracy is clear.

Up to 2

[2]

Q6.

Award **TWO** marks for all three numbers correct as shown:

- a multiple of 9 | 2 | 7 | **OR** | 7 | 2 |

- a square number | 2 | 5 |

- a factor of 96 | 1 | 2 |

If the answer is incorrect, award **ONE** mark for two numbers correct.

Up to 2

[2]

Q7.

1, 2 and 5

Numbers may be given in any order.

[1]