Q1.

 $23 \times 36 = 23 \times 9 \times$

Q2.

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.

1 mark

1 mark

Q3.

The factor pairs of 8 are



Write all the factor pairs of 42



2 marks

Q4.

Complete this sentence.

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



Q5.

Write the missing numbers.

Factors of 20 = {1, _____, ____, 20}

1 mark

1 mark

1 mark

Q6.

Write in the **two** missing digits.



Q7.

Here are four number cards.



Q8.

1 and 48 is factor pair of 48

Find three other factor pairs of 48



Q9.

Here are four digit cards.



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

The first one is done for you.



2 marks

Q10.

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





2 marks

2 marks

Q11.

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

Q12.

Write three factors of 30 that are not factors of 15



Q13.

Write all the numbers between 50 and 100 that are factors of 180



Q1.

4

Q2.

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



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.

Q3.

All four correct				
1	&	42		
2	&	21		
3	&	14		
6	&	7		

or

any three correct

Q4.

1, 2 and 5

Numbers may be given in any order.

Q5.

2, 4, 5, 10

All correct, in any order for **1 mark**.

Q6.

5 and 6 written in the boxes in either order as shown:



OR

[1]

[2]

[1]

[1]

2

1



Q7.

Cards completed as shown:



Accept answers in either order.

[1]

[2]

[2]

[1]

Q8.

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 7

Q9.

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

OR

2 5

1 2

- a multiple of 9
- a square number
- a factor of 96

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

2

7

Up to 2

Q10.

2

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



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 marks

Q11.

Award TWO marks for all four factors, as shown:

1, 2, 5, 10

If the answer is incorrect, award **ONE** mark for:

• three factors correct and none incorrect

OR

• four factors correct and one incorrect.

Accept factors written in any order. All four factors and no incorrect numbers must be given for the award of **TWO** marks.

Up to 2

[2]

[2]

Q12.

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]

Q13.

Award **TWO** marks for the correct answer of 60 **AND** 90 Numbers may be given in either order.

If the answer is incorrect, award **ONE** mark for:

• both numbers correct and one or more additional factors of 180

3

OR

• both numbers correct and one number which is not a factor of 180

eg 60, 90, 100	
-----------------------	--

OR

• one number correct and none incorrect.

eg **60**

Up to 2

[2]