

SMART EXAM RESOURCES
CAMBRIDGE LOWER SECONDARY
STAGE 7 TOPIC QUESTIONS
MATHS
FACTORS AND MULTIPLES-SET-1

1

■ and * are positive integers.

■ is a factor of 15

* is a multiple of 3

Write down the smallest possible answer to $\blacksquare \times *$.

..... [1]

Mark Scheme:

3	1
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2

Here is a list of numbers.

5

7

10

12

16

20

Write down the number that is a factor of 56

..... [1]

Mark Scheme:

7	1	Accept 7 circled or ticked in the list.
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3 Tick (✓) all the **correct** statements about the number 6

6 is a multiple of 12

☐

6 is a factor of 18

☐

6 is a prime factor of 30

☐

6 is a common factor of 42 and 60

☐

6 is the highest common factor of 24 and 36

☐

[2]

Mark Scheme:

Part	Mark	Answer	Further Information
	2	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Award 1 mark for: <ul style="list-style-type: none"> • 1 correct box ticked and no incorrect boxes ticked. • 2 correct boxes ticked and 1 incorrect box ticked.
Total	2		

4

◆ is a multiple of 8

□ is a factor of 15

$$\text{◆} + \text{□} = 45$$

Find the value of ◆ and the value of □

$$\text{◆} = \underline{\hspace{2cm}}$$

$$\text{□} = \underline{\hspace{2cm}}$$

[2]

Mark Scheme:

[♦ =] 40 and [✱ =] 5	2	
At least 3 multiples of 8 less than 45 or 3 factors of 15 or for [♦ =] 5 and [✱ =] 40	M1	

- 5 Carlos writes down a 4-digit number.
The number is a multiple of 3 **and** 5
Two of its digits are square numbers.
Two of its digits are prime numbers.

Complete his number.

4	9		
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[2]

Mark Scheme:

(49)35	2	
(49)05, (49)20, (49)50, (49)65, (49)80 or completes with 2 prime digits	B1	i.e. is a multiple of 3 and 5 and has two square digits. i.e. has two prime digits and two square digits.