

Q1. (2017)

2	72	B1	
---	----	----	--

Q2. (2018)

10	8	B1	
Additional Guidance			

Q3. (2020)

Q	Answer	Mark	Comments
24	15	B2	B1 answer 3 or answer 5 or answer 3 (x) 5 or (75 $\Rightarrow$) 3 (x) 5 (x) 5 or (75 $\Rightarrow$) 3 (x) 5 ² or (105 $\Rightarrow$) 3 (x) 5 (x) 7 or (1) 3 5 15 25 (75) or (1) 3 5 7 15 21 35 (105)
	Additional Guidance		
	NB 15 from 3 + 5 + 7 does not score unless working for B1 seen elsewhere		
	Prime factor responses for B1 may be seen in repeated division, on a factor tree or in a Venn diagram eg1 3 5 5 in repeated division or factor tree for 75 eg2 3 5 7 inside one circle of a Venn diagram eg3 3 5 inside the intersection of a Venn diagram		B1 B1 B1
	For products of prime factors, repeated division, factor trees and Venn diagrams, ignore inclusion of factors of 1		
	A repeated division needs to reach the final prime factor but does not need to reach 1		
	B1 can be awarded even if LCM is subsequently worked out		
List of factors may be seen as factor pairs			

Q4. (2021)

Q	Answer	Mark	Comments
1	16	B1	

Q5. (2021)

Q	Answer	Mark	Comments
9	Two multiples of 9 with a difference of 54 eg 9 and 63 or 18 and 72 or 27 and 81 or 36 and 90 or 45 and 99 or 54 and 108	B2	either order B1 at least one multiple of 9 other than 9 or 54 seen or two numbers with a difference of 54
Additional Guidance			
11 $\times$ 9 = 99, 5 $\times$ 9 = 45, Answer 11 and 5			B1

Q6. (2022)

125 and 17 or 5 ³ and 17 or 5 and 5 and 5 and 17	B2	together in any order eg 125 × 17 or 17 × 5 ³ or 5, 5, 5, 17 or 2125 ÷ 17 = 125 or 2125 ÷ 125 = 17 B1 at least three of 8, 27, 64, 125, 216, 343, 512, 729, 1000, 1331, 1728, 2197 etc (allow 2 ³ , 3 ³ , 4 ³ etc) or all four of 11, 13, 17, 19 (ignore any numbers not between 10 and 20) or (cube number > 1) × (prime number between 10 and 20) or 2125 ÷ (cube number > 1) or 2125 ÷ (prime number between 10 and 20)
Additional Guidance		
21	B1 may be awarded for correct work with no, or incorrect answer, even if this is seen amongst multiple attempts	
	B2 responses may be seen on a factor tree	
	B1 for three cube numbers given in index form – evaluations can be ignored eg 4 ³ 5 ³ 6 ³ scores B1 with no evaluations or with incorrect evaluations	
	B1 for multiplications or divisions – evaluation can be ignored eg1 2 ³ × 13 scores B1 with no evaluation or evaluated incorrectly eg2 2125 ÷ 27 scores B1 with no evaluation or evaluated incorrectly eg3 2125 ÷ 11 scores B1 with no evaluation or evaluated incorrectly	
	125 and 17 seen in multiple attempts is B2 if 2125 included eg 125 × 17 = 2125 or 2125 ÷ 17 = 125 or 2125 ÷ 125 = 17 seen amongst multiple attempts	B2
	125 and 17 seen in multiple attempts is B1 if 2125 not included eg 125 × 17 seen amongst multiple attempts	B1
	11 13 15 17 19 does not score B1 unless 11 13 17 19 selected	
	Incomplete list eg 11 13 19 does not score B1	

Q7. (2023)

Q	Answer	Mark	Comments	
7(b)	<div>3 × 10</div> <p>or</p> <div>6 × 5</div>	B2	either order B1 uses a factor of 12 and the product of the two numbers is [24, 36] or uses a factor of 40 and the product of the two numbers is [24, 36] or the product of the two numbers is 30	
	Additional Guidance			
	<div>3 × 9</div>		B1	
	<div>7 × 5</div>		B1	
	<div>30 × 1</div>		B1	
	<div>15 × 2</div>		B1	
	Fractions and/or decimals are acceptable for non-factors for B1			
	Mark the boxes			

Q8. (2023)

Q	Answer	Mark	Comments
7(c)	<div>36</div> ÷ <div>2</div>	B2	B1 any square number > 1 or any prime number
	Additional Guidance		
	Allow squares to be written in index form for B2 or B1 eg		
	<div>6²</div> ÷ <div>2</div>		B2
	<div>2</div> ÷ <div>36</div>		B1
	<div></div> ÷ <div>9</div>		B1
	<div>72</div> ÷ <div>4</div>		B1
	Mark the boxes		