

Q1. (2018)

5	$(3^5 =) 729$ seen or $(\sqrt[5]{841} =) 29$ seen	M1	
	700	A1	
	Additional Guidance		

Q2. (2019)

1	26	B1	
	Additional Guidance		

Q3. (2020)

Q	Answer	Mark	Comments
8(a)	Any even square whole number	B1	eg 4 or 16 or 36 or 64
	Additional Guidance		
	0		B1
	$2^2 = 4$		B1
	Answer only of 2^2		B0
	Answer only of $\frac{16}{4}$		B0

Q4. (2020)

Q	Answer	Mark	Comments
8(b)	125 216 343 with no extras	B2	B1 125 216 343 seen with extras or two of 125 216 343 seen alone or with extras or $5^3 6^3 7^3$
	Additional Guidance		
	125 216 343 seen with answer $5^3 6^3 7^3$		B2
	$5^3 6^3 7^3$ only		B1
	125 216 343 seen with answer 5 6 7		B1
	5 6 7 only		B0
	Extras may be incorrect for B1		

Q5. (2020)

Q	Answer	Mark	Comments
8(c)	3 and 72 or 6 and 36 or 9 and 24 or 12 and 18	B1	either order
	Additional Guidance		
	Answer line takes precedence		
	Award the mark for embedded answers only if the answers are selected eg1 $216 \div 3 = 72$ with no answer or with incorrect answer		
	eg2 $216 \div 3 = 72$ with no contradictory answer		
	eg3 3×72 in working with no contradictory answer		
			B0
			B1
			B1

Q6. (2021)

Q	Answer	Mark	Comments
22	256	B1	

Q7. (2022)

Q	Answer	Mark	Comments
	125 and 17 or 5^3 and 17 or 5 and 5 and 5 and 17	B2	<p>together in any order eg 125×17 or 17×5^3 or 5, 5, 5, 17 or $2125 \div 17 = 125$ or $2125 \div 125 = 17$</p> <p>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)</p> <p>or</p> <p>all four of 11, 13, 17, 19 (ignore any numbers not between 10 and 20)</p> <p>or</p> <p>(cube number > 1) $\times$ (prime number between 10 and 20)</p> <p>or</p> <p>$2125 \div$ (cube number > 1)</p> <p>or</p> <p>$2125 \div$ (prime number between 10 and 20)</p>
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 $2^3 \times 13$ scores B1 with no evaluation or evaluated incorrectly eg2 $2125 \div 27$ scores B1 with no evaluation or evaluated incorrectly eg3 $2125 \div 11$ scores B1 with no evaluation or evaluated incorrectly		
	125 and 17 seen in multiple attempts is B2 if 2125 included eg $125 \times 17 = 2125$ or $2125 \div 17 = 125$ or $2125 \div 125 = 17$ 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		