Integers

Mark Scheme

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Topic	Number and Algebra
Sub Topic	Integers
Booklet	Mark Scheme

Time Allowed: 25 minutes

Score: /21

Percentage: /100

Grade Boundaries:

A*	A	B	C	D	E	U
>85%	75%	70%	60%	55%	50%	<50%

Question Number	Working	Answer	Mark	Notes
1.	3 or more correct factors of which 2 are from 2,3,3,7			M1 — e.g 2 x 3 x 21 or 2, 3, 21 must multiply to 126 could be implied from a factor tree or division ladder
	All 4 correct prime factors & no extras (ignore 1's)	2, 3, 3, 7 or 2, 3, 3, 7, 1 or 2x3x3x7x1		M1 — could be implied from a factor tree or division ladder
		2 x 3 x 3 x 7	3	A1 — any order, do not accept inclusion of 1's must be a product on answer line (dots or crosses)
				Total 3 marks

	Working	Answer	Mark	Notes
2.	7.92 ÷ 1.65	4.8 oe	2	M1 — M1 for 7.92 or 1.65 A1 — Accept $\frac{24}{5}$
				Total 2 marks

Q		Working	Answer	Mark	Notes
3.	(a)	11.5 or 1.96 seen		2	M1 — Also award for $5\frac{85}{98}$ or $\frac{575}{98}$ or answer of 5.9 or 5.87
			5.8673(46939...)		A1 — for at least first 5 figures (ignore figures after the first five)
	(b)		5.9	1	B1 — ft from (a) if non-trivial
					Total 3 marks

4.	(a)	2.720294102 7.7		2	M1 — for 2.72029… if first 5 figures correct (rounded or truncated) **or** for 7.7 **or** for $\frac{2\sqrt{185}}{77}$
			0.35328(4948)		A1 — Accept if first 5 figures correct
	(b)		0.35	1	B1 — ft from (a) only if more than 2 sig figs given in (a)
					Total 3 marks

Question	Working	Answer	Mark	Notes
5. (a)	$89.7 \div 8.41....$	10.66(053284)	2	M1 for 89.7 or 8.41 (Accept if first 3 sig figs correct) A1 Accept if first four sig figs correct.
(b)		10.7	1	B1ft ft if (a) > 3 sig figs
				Total 3 marks

Question	Working	Answer	Mark	Notes
6. (a)	$\dfrac{451.4}{24.4}$	18.5	2	M1 for 24.4 A1 Accept $18\frac{1}{2}$ or 37/2 but not unsimplified fractions Accept equivalent decimals (eg 18.50)
(b)	$\sqrt{60.84 - 51.84} = \sqrt{9}$ or $\sqrt{\frac{1521}{25} - \frac{1296}{25}}$	3	2	M1 for $60.84 - 51.84$ or $\frac{1521}{25} - \frac{1296}{25}$ or 9 A1 Accept -3 or ± 3
				Total 4 marks

Question	Working	Answer	Mark	Notes
7. (a)	$15625 + \dfrac{173}{2.5}$	15694.2	2	B2 B1 for 15625 or 69.2 or $\dfrac{346}{5}$ or $\dfrac{78471}{5}$
(b)		15700	1	B1 ft from (b) if non-trivial
				Total 3 marks