Weekly check: Year 8 part 2

Answers

KS3 Maths weekly check

This check online

Q	Answer	Marks
1	y = 3x + 4	3
2	a) solid circle at -2, arrow to the right b) open circle at -1, solid circle at 4, line joining them	2
3	**a)** 4.32 m **b)** 6 cm	3
4	x = 109 (co-interior angles between parallel lines add up to 180 degrees)	3
5	a) Each interior angle is 120°, and 3 × 120° = 360°, so three hexagons fit exactly round a point. b) Each interior angle is 108°; 3 × 108° = 324° leaves a gap and 4 × 108° = 432° overlaps, as 360 is not a multiple of 108. c) 135° + 135° + 90° = 360°.	3
6	Every term of the sequence ends in 2 or 7, and 81 ends in 1	2
7	(5, 7)	2
8	**a)** 70 mph **b)** 112 km/h	3
9	-1 <= x < 4	2
10	**a)** 55° **b)** 91°	2
11	69°	4
12	**a)** A (-4, -1), B (1, -1) and C (3, 3) plotted **b)** (-2, 3)	3
13	**a)** $3a^2 + 7a - 9$ **b)** 6xy + 3	2
14	**a)** 116 **b)** angles on a straight line add up to 180 degrees	2
15	**a)** C **b)** A **c)** B **d)** D	2
16	4n + 1	2
17	w = 28	2
18	No, Dan got 19 sweets	3
19	**a)** 3 **b)** (0, -2)	2
20	**a)** 7, 11, 19, 35 **b)** 50, 42, 34, 26, 18	3

Full worked solutions, written out by hand, are on the solutions sheet for this check.

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