Weekly check: Year 9 part 3

Answers

KS3 Maths weekly check

This check online

Q	Answer	Marks
1	Angle ACB = 180 - a - b (angles in a triangle add up to 180°), so angle ACD = 180 - (180 - a - b) = a + b (angles on a straight line add up to 180°)	3
2	Triangle with corners on the other side of the line, each the same distance from the line	2
3	Enlargement, scale factor 2, centre (0, 0).	2
4	**a)** £12 per hour **b)** £132	3
5	Reflection in the x-axis.	2
6	**a)** 360 cm^3 **b)** 7.5 cm	3
7	96 cm^2	3
8	$y = -\frac{x}{2} + 3$	3
9	**a)** C **b)** D **c)** E	3
10	Triangle with vertices (4, 4), (10, 4), (4, 7)	3
11	11.4 cm	2
12	**a)** x = 62 (corresponding angles are equal) **b)** z = 62 (alternate angles are equal) **c)** y = 118 (angles on a straight line add up to 180°)	3
13	**a)** 4, -2, 1 **b)** smooth curve through (-2, 1), (-1, 4), (0, 1), (1, -2), (2, 1)	4
14	10 cm	2
15	Triangle B with vertices (1, -2), (3, -2), (1, 1)	2
16	**a)** 30 minutes **b)** 40 km/h **c)** 30 km/h	3
17	Triangle ABD is congruent to triangle ACD by SAS	3
18	**a)** PR **b)** $5^2 + 12^2 = 25 + 144 = 169$ and $13^2 = 169$	2
19	**a)** 2 **b)** (1, 5)	3
20	10.8 cm	2

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

Free for classroom and home use: print, photocopy and share. Not for resale or re-hosting.