Significant figures in calculations

Answers

GCSE science calculations

This topic online

Q	Answer	Marks
1	**a)** 0.047 A **b)** 38700 J	2
2	**a)** 12.3 s **b)** 0.00091 m	2
3	16 V	2
4	15 J	3
5	8520 kg/m^3	3
6	14000 J	3
7	21 Ω	3
8	35 s	3
9	3.8 s	3
10	**a)** 7.5 J **b)** Ryan rounded the speed before the last step. 5.8 is bigger than the real speed of 5.777... m/s, and squaring it makes the error bigger, so his kinetic energy rounds to 7.6 J instead of 7.5 J. He should keep the full value in his calculator until the end.	4
11	6.7 m/s	5
12	69%	5
13	12 Ω	3

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

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