## Self Check 4.1 results for Melvin Macaulay

## (!) Correct answers are hidden.

Score for this attempt: **13** out of 13 Submitted 29 Mar 2019 at 11:19 This attempt took 4 minutes.

When calculating the answers to the following questions, you should round to two decimal places.

Question 1	1 / 1 pts
Find the volume of water that a cylindrical water bottle with a radi cm and a height of 10 cm can hold.	us of 2
○ 628.32 cm³	
○ 16.76 cm³	
125.66 cm <sup>3</sup>	
○ 188.5 cm³	
Feedback: π × 2² × 10 = 125.66 cm³	



Sarah is packing her stuff into a box and she wants to know how much space is inside the box. She measured the box to be 75 cm in length, 50 cm in width, and 33 cm high. Find the volume of Sarah's box.





Question 4	1 / 1 pts
Find the volume within a hot tub that measures 1m by 2m and is deep.	0.8m
○ 1.6 cm³	
○ 160 cm³	
○ 16 m³	
1.6 m <sup>3</sup>	
Feedback: 1 × 2 × .8 = 1.6 m³	



Question 6	1 / 1 pts
Find the volume of a box that measures 3 cm by 11 cm by 40 cm	
○ 1,320 cm	
54 cm	
1,200 cm <sup>2</sup>	
1,320 cm <sup>3</sup>	
Feedback: 3 × 11 × 40 = 1,320 cm <sup>3</sup>	



Question 8	1 / 1 pts
Find the density of a substance that has a mass of 4.5 g and a vol 2.5 cm <sup>3</sup> .	lume of
○ 11.25 g/cm³	
1.8 g/cm <sup>3</sup>	
○ 2.2 g/cm <sup>3</sup>	
○ 0.56 g/cm³	
Feedback: 4.5 / 2.5 = 1.8 g/cm <sup>3</sup>	

Question 9	1 / 1 pts
John wants to build a model boat, but he is not sure if he h wood that will float in water. Find the density of the type of is using if it has a mass of 60 g and a volume of 112cm <sup>3</sup> .	as chosen wood that John
0.54 g/cm <sup>3</sup>	
1.87 g/cm <sup>3</sup>	
○ 6720 g/cm <sup>3</sup>	
○ 496 g/cm <sup>3</sup>	

Feedback: 60 / 112 = 0.54 g/cm<sup>3</sup>



Question 11	1 / 1 pts
Convert 70°F to Kelvin.	
○ 17,850 K	
○ 333 K	
294 K	
○ 325 K	

Feedback: (70 459) ÷ 1.8 = 294 K





Feedback: 4/3 × 3.14 × 7.5<sup>3</sup> = 1,767 cm<sup>3</sup>

Quiz score: 13 out of 13