

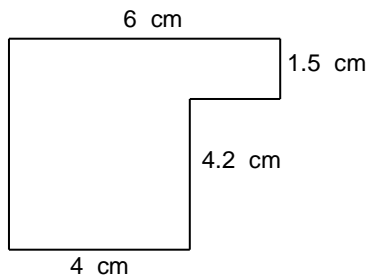
Area Problems

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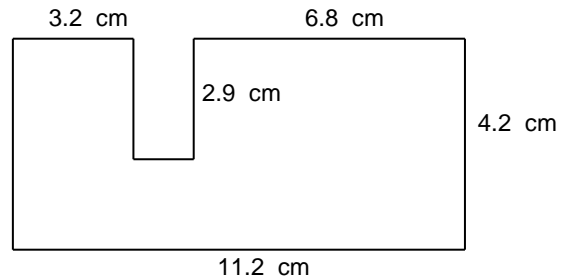
Find the area of the following shapes. Set your work out clearly.

Budding Genius

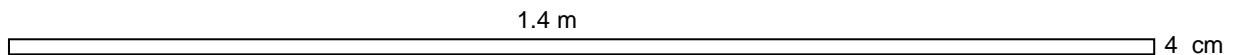
1.



2.

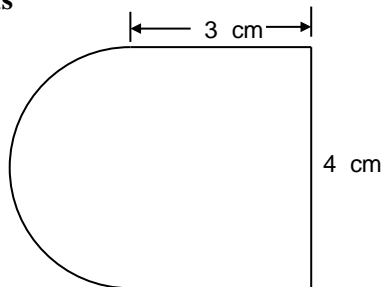


3.

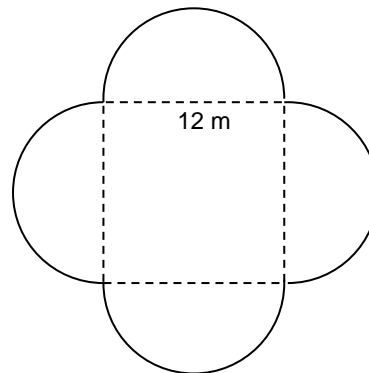


Genius

4.

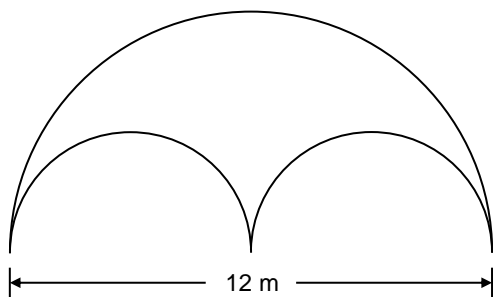


5.

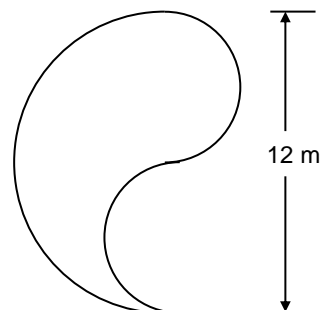


Super Genius

6.



7.

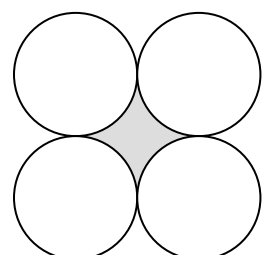


Mega Genius!

8.
 - a. Find the area of a semicircle with a diameter of 12 m.
 - b. Coincidentally, the answer is the same as the answer to (7) above. Or is it a coincidence? Explain.
9. A large pizza with a diameter of 40 cm sells for \$12. An extra large pizza has a diameter of 50 cm.
 - a. How much larger is the extra large pizza compared to the large pizza? Express your answer as a percent.
 - b. If both pizzas have the same cost per square centimetre, what is a fair price for the extra large pizza?

Supreme Genius!!

10. Each of the circles in the diagram alongside has a radius of 3 units. Find the area of the shaded region.



Answers: 1. 25.8 cm^2 2. 43.56 cm^2 3. 5600 cm^2 4. 18.3 cm^2 5. 370.2 m^2
 6. 28.3 m^2 7. 56.5 m^2 8. - 9. a. 56% larger b. \$18.75
 10. Confirm your answer with your teacher!