

**Apprenticeship Math 12**  
**ASSIGNMENT: Capacity**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. A juice box measures 10 cm by 7.5 cm by 2.5 cm. What is its capacity in milliliters? Round your answer to the nearest milliliter.

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2. Eric has a pail that he uses to take kitchen waste to the compost pile. The pail is 50 cm tall and has a diameter of 30 cm. What is the capacity of the pail in liters? Round your answer to the nearest tenth.

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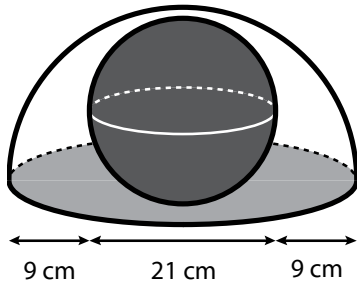
3. A water trough at the Hixon Creek Resort riding stables is 5 feet long by 3 feet wide by 21 inches deep. What is the capacity of the trough to the nearest US gallon?

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4. A large cylindrical fuel storage tank has a capacity of 20 000 L. If it has a diameter of 2.4 m, what is the height of the tank?

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5. Toby keeps his pet slug in a terrarium that is in the shape of a hemisphere. As a decorative feature, he has placed a bowling ball inside the terrarium. What is the capacity of the terrarium with the bowling ball (rounded to the nearest liter)?




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6. A square-based pyramid has a base with sides of 14 cm and a height of 45 cm. A cone has a diameter of 14 cm and a height of 45 cm. What is the difference in capacity between the two objects, to the nearest hundredth of a liter?

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| 6. | 0.63 L    |
| 5. | 11 L      |
| 4. | 4.42 m    |
| 3. | 196 USgal |
| 2. | 35.3 L    |
| 1. | 188 mL    |