Practice TEST

1. The volume of a cube with sides 4 cm long is

2. The surface area of a cylinder with radius 2 cm and height 6 cm is

$$5A = 2\pi (^2 + 2\pi (h))$$

= 2(3,14)(2)² + 2(3,14)(2)(6)
= 25.12 + 75:36
= 100.48 cm²

3. When the sides of a rectangular prism are doubled in length, the volume is (pick one statement)

A two times the volume of the original prism

B four times the volume of the original prism

C six times the volume of the original prism

Deight times the volume of the original prism

4. If Casey's milk jug is filled with 80 fl oz of milk, then the number of pints in the jug is:

5. Kim's convenience store charges \$1.60/L for grapefruit juice. The cost of 2 gal of juice would be approximately:

6. The temperature in Jamaica is 80°F, while the temperature in Toronto is 15°C. How much warmer is it in Jamaica than in Toronto? Give your answer in degrees Celsius.

$$C = \frac{5}{4}(F - 32)$$
 $C = \frac{5}{4}(80 - 32)$
 $C = \frac{5}{4}(80)$
 C

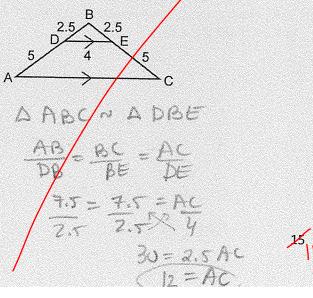
7. Estimate each measure using the indicated units.

b) 56 gal

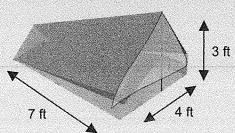
c) 120 mL

d) 16 lb

8. Line segments AC and DE are parallel. Find the length of AC to the nearest tenth of a unit.



9. Billy's tent is in the shape of a triangular rism.



a) What is the volume of the tent?

b) Draw the net and label dimensions.



c) Find the slanted length.

$$2^{2} + 3^{2} = x^{2}$$

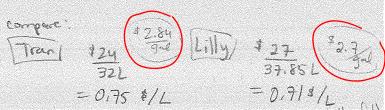
$$4 + 9 = x^{2}$$

$$13 = x^{2}$$

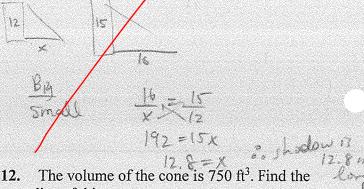
$$3.6 = x$$

d) How much material was used to make the tent, including the floor?

10. Tran paid \$24 for 32 L of gas. Lilly paid \$27 for 10 gal of gas. Who got the better deal? Show your work.



11. The height of Melvin's house is 12 m. His friend, Matt, lives in a house that is 15 m tall. If Matt's house casts a shadow that is 16 m long, what is the length of the shadow cast by Melvin's house to the nearest tenth of a metre?



radius of this cone.

