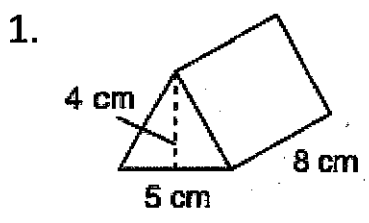


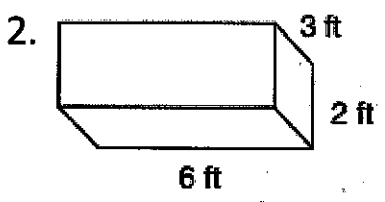
Name: Keef Date: \_\_\_\_\_ Hour: \_\_\_\_\_

Practice quiz on volume and surface area. You may use a calculator but be sure to **SHOW ALL OF YOUR WORK!** HONORS

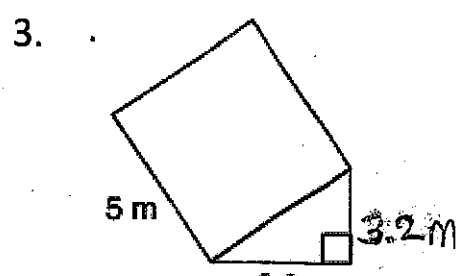
Find the VOLUME of each figure.



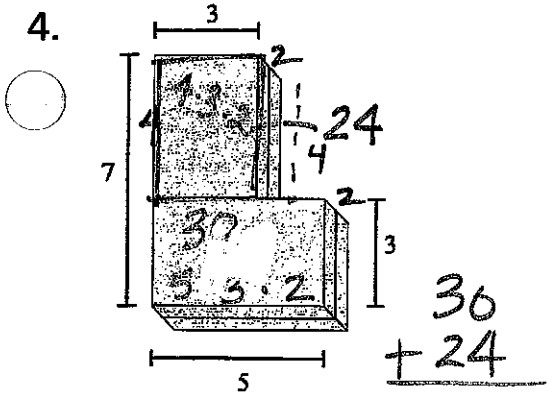
$$\frac{80 \text{ cm}^3}{4.5 \div 2.8}$$



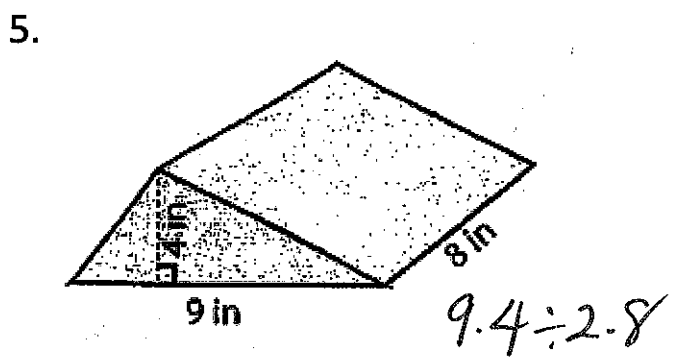
$$\frac{36 \text{ ft}^3}{6 \cdot 3 \cdot 2 = 36}$$



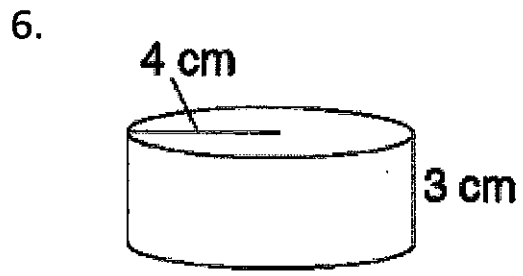
$$\frac{25.6 \text{ m}^3}{3.2 \cdot 3.2 \div 2.5}$$



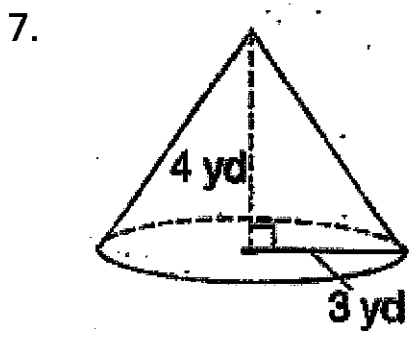
$$\frac{54 \text{ units}^3}{30 + 24}$$



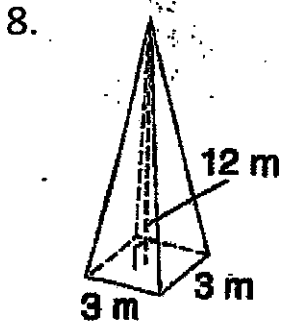
$$\frac{144 \text{ in}^3}{9.4 \div 2.8}$$



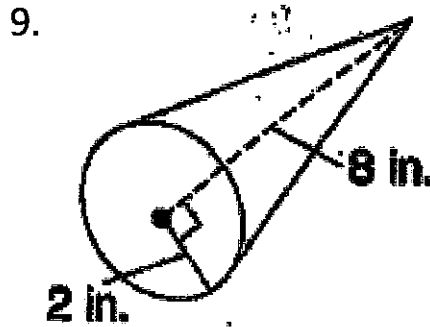
$$\frac{150.72 \text{ cm}^3}{4^2 \cdot 3.14 \cdot 3}$$



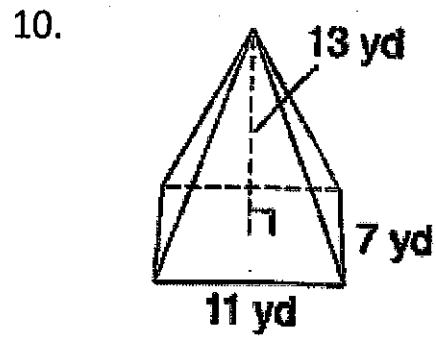
$$\frac{37.68 \text{ yd}^3}{3^2 \cdot 3.14 \cdot 4 \div 3}$$



$$\frac{36 \text{ m}^3}{3 \cdot 3 \cdot 12 \div 3}$$



$$\frac{33.49 \text{ in}^3}{2^2 \cdot 3.14 \cdot 8 \div 3}$$

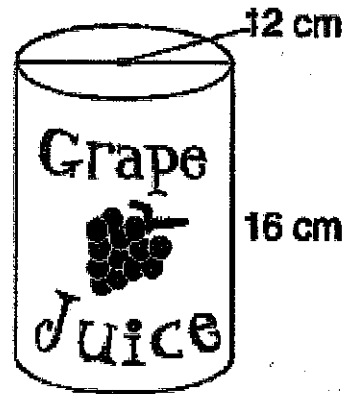


$$\frac{333.7 \text{ yd}^3}{11 \cdot 11 \cdot 13 \div 3}$$

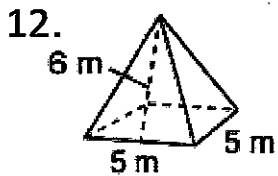
11.

A juice can is shaped like a cylinder. It is 12 centimeters wide and 16 centimeters tall. Find its volume to the nearest whole number. Use 3.14 for  $\pi$ .

$$\frac{1,808.64 \text{ cm}^3}{6^2 \cdot 3.14 \cdot 16}$$



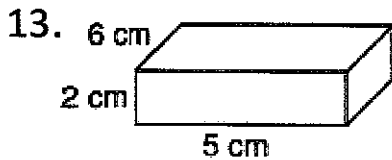
Find the **SURFACE AREA** of the following figures.



Base:  $5 \cdot 5 = 25$

Sides:  $6 \cdot 5 \div 2 = 15$   $\times 4 = 60$

Total Surface area =  $85 \text{ m}^2$

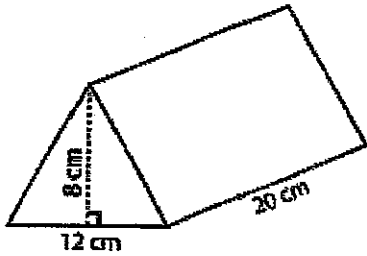


Front:  $2 \cdot 5 = 10$   $\times 2 = 20$

Top:  $5 \cdot 6 = 30$   $\times 2 = 60$

Side:  $2 \cdot 6 = 12$   $\times 2 = 24$

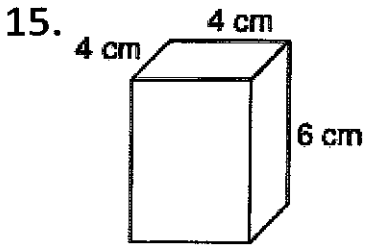
Total Surface Area =  $104 \text{ cm}^2$



Base:  $12 \cdot 8 \div 2 = 48$   $\times 2 = 96$

Side:  $12 \cdot 20 = 240$   $\times 3 = 720$

Total Surface Area =  $816 \text{ cm}^2$



Front:  $6 \cdot 4 = 24$   $\times 2 = 48$

Top:  $4 \cdot 4 = 16$   $\times 2 = 32$

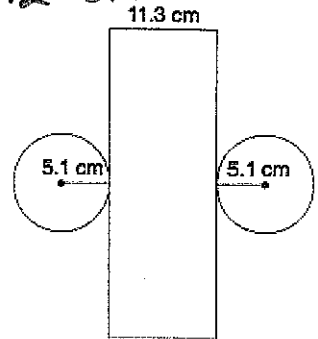
Side:  $6 \cdot 4 = 24$   $\times 2 = 48$

Total Surface Area =  $128 \text{ cm}^2$

16. Rectangle:  $11.3 \cdot 32.028 = 361.9$   $C = 10.2 \cdot 3.14$

Circle:  $5.1^2 \cdot 3.14 \times 2 = 163.3$

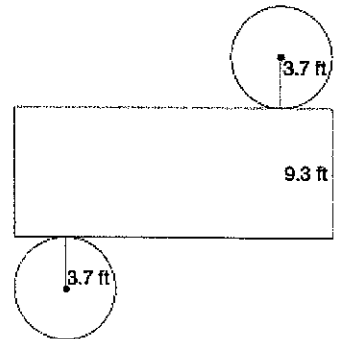
Total Area:  $525.2 \text{ cm}^2$



17. Rectangle:  $23.236 \cdot 9.3 = 216.0948$

Circle:  $3.7^2 \cdot 3.14 \times 2 = 85.9732$

Total Area:  $302.1 \text{ ft}^2$



$7.4 \cdot 3.14$

