

## DAY 1 - Measuring & Converting Between Units

1. Which units you would use to measure in each case.

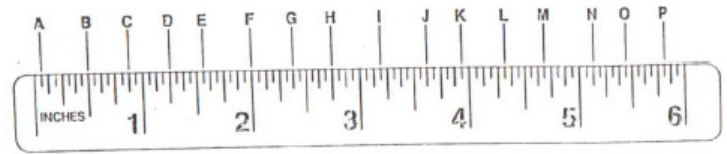
- a) the size of a book
- b) a desk
- c) a lawn
- d) an airfield

3. For each situation, which would be more appropriate: an exact measure or an approximation.

- a) the dose of a medicine
- b) the outside temperature when you are deciding what to wear
- c) the length of a car trip
- d) the dimensions of parts of a machine
- e) your height

2.

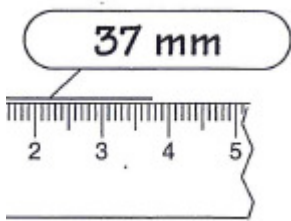
Read the indicated measures on the ruler below. It measures lengths up to 6" to the nearest 16th inch. **Hint:** All measures are reduced to lowest terms.



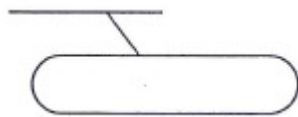
I. \_\_\_\_\_ J. \_\_\_\_\_ K. \_\_\_\_\_ L. \_\_\_\_\_

M. \_\_\_\_\_ N. \_\_\_\_\_ O. \_\_\_\_\_ P. \_\_\_\_\_

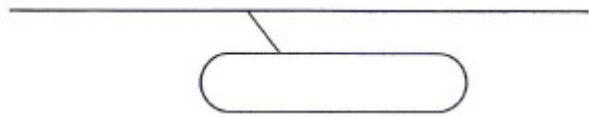
Measure each segment to the nearest millimeter, as shown



4.

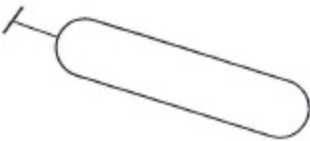


5.



Measure each segment in inches, to the nearest 16<sup>th</sup> of an inch

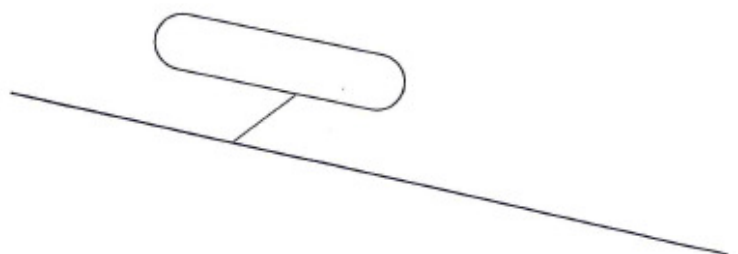
6.



7.



8.



9. ANS: \_\_\_\_\_



10. ANS: \_\_\_\_\_



11. ANS: \_\_\_\_\_



**SINGLE STEP CONVERSIONS**

12. Convert the following metric measures:

a) 2400 m = \_\_\_\_\_ km

b) 34 cm = \_\_\_\_\_ mm

c) 5 L = \_\_\_\_\_ mL

d) 3200 g = \_\_\_\_\_ kg

13. Convert the following imperial measures:

a) 4 pounds = \_\_\_\_\_ ounces

b) 6.5 quarts = \_\_\_\_\_ pints

c) 42 inches = \_\_\_\_\_ feet

d) 3 miles = \_\_\_\_\_ yards

14. Convert the following metric and imperial measures:

a) 36 inches = \_\_\_\_\_ cm

b) 40 km = \_\_\_\_\_ miles

c) 10 gallon = \_\_\_\_\_ L

d) 140 g = \_\_\_\_\_ ounce

15. Jesse needs to order flooring for his room. He measured the dimensions of the room to be 300 cm by 375 cm. However, the flooring company needs to know these dimensions in feet. Find the dimensions of the room in feet.

16.

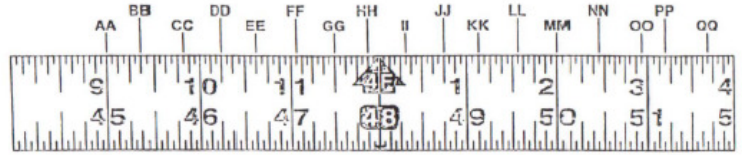
You have a 1.5 gal jug. How many litres will it hold?

## DAY 2 - Measuring & Converting Between Units

1. Which units you would use to measure in each case.

- the volume contained in a thimble
- the volume contained in a glass
- the volume contained in a swimming pool
- the volume contained in an ocean
- the weight of a sheet of paper
- the weight of a book
- the weight of a person
- the weight of a car

2. Refer to the ruler below. Read these measures in feet and inches to the nearest 16th of an inch.



Just inches

JJ. \_\_\_\_\_ KK. \_\_\_\_\_ LL. \_\_\_\_\_ MM. \_\_\_\_\_

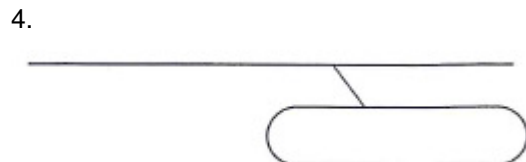
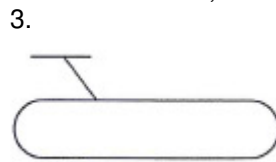
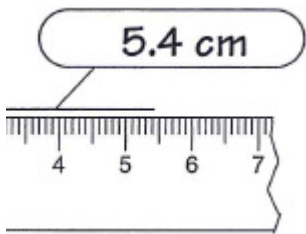
NN. \_\_\_\_\_ OO. \_\_\_\_\_ PP. \_\_\_\_\_ QQ. \_\_\_\_\_

Now feet and inches

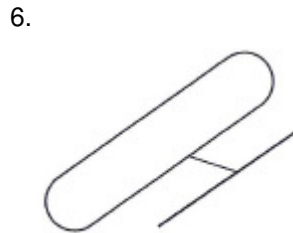
JJ. \_\_\_\_\_ KK. \_\_\_\_\_ LL. \_\_\_\_\_ MM. \_\_\_\_\_

NN. \_\_\_\_\_ OO. \_\_\_\_\_ PP. \_\_\_\_\_ QQ. \_\_\_\_\_

Measure each segment to the nearest centimeter, as shown



Measure each segment in inches, to the nearest 16th of an inch



### SINGLE & MULTI STEP CONVERSIONS

8. 60 cm inches

9. 3 m yards

10. 600 g pounds

11. 4 L quarts

**12. TEMPERATURE CONVERSIONS**

Yesterday, the high temperature in Orlando, Florida, was 87°F. The high temperature in Stouffville, Ontario, was 28°C. Which city had the greater high temperature? How do you know?

**14. COMPARING CONVERSIONS**

The Sun Supermarket charges \$3.25 for 2 lb of strawberries, while the Golden Supermarket charges \$1.80 for 450 g of strawberries. Which store gives the better value for strawberries? Work in pounds

13.

- a) The temperature range in which most bacteria grow is from 5°C to 60°C. What is this range in degrees Fahrenheit?  
b) *Salmonella* bacteria are destroyed at cooking temperatures above 150°F. What is this temperature in degrees Celsius?

15.

Herman's Grocery charges \$4.50 for 3 lb of apples, while Chi's Grocery charges \$3.50 for 900 g. Which store has the better deal for apples? Show your work in pounds.

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**16. CONVERT**

a) 105 mL

tablespoons

c) 12 L

quarts

b) 19 gal

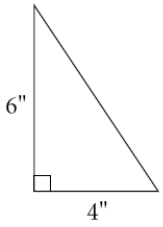
litres

d) 30 mi

kilometres

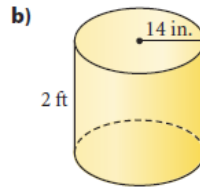
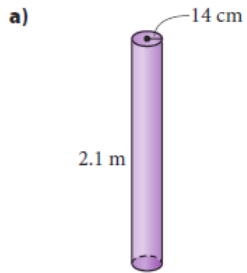
## DAY 3 –Surface Area & Volume

1. Find area and perimeter

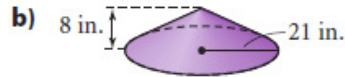
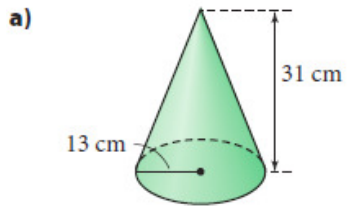


Find the surface area for the shapes in the **left column** and volume for the shapes in the **right column**. Record units in your answer

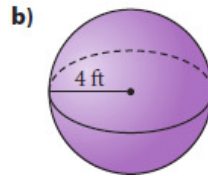
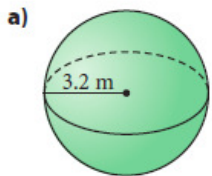
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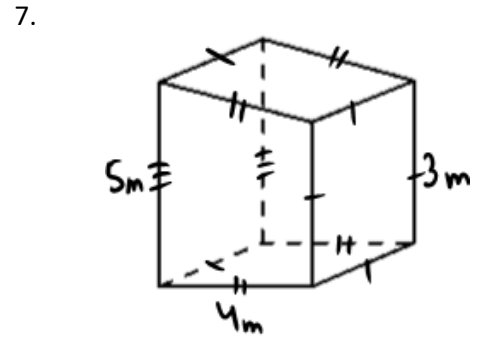
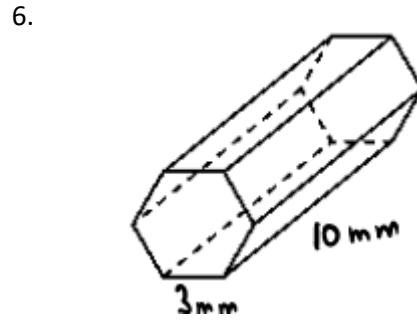
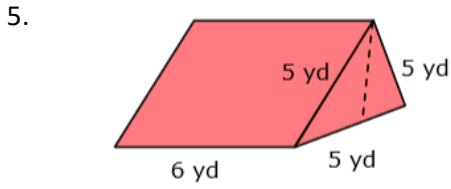
3.



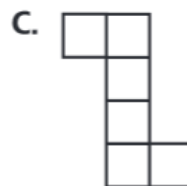
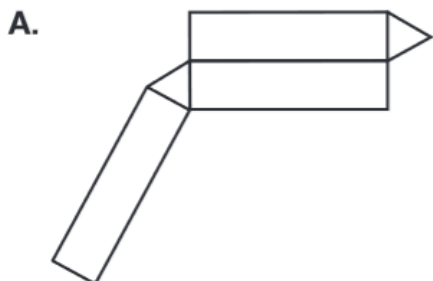
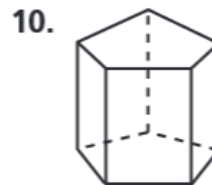
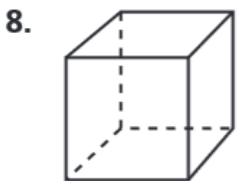
4.



Draw the nets for each object. Label each dimension on the net. No other calculations necessary



Match the following objects to their nets

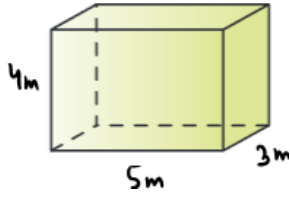


## DAY 4 – More Surface Area & Volume

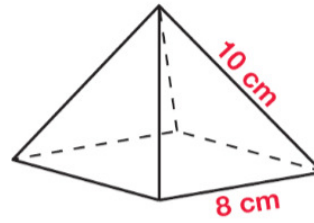
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Draw the nets for each object then use it to find the surface area of each object

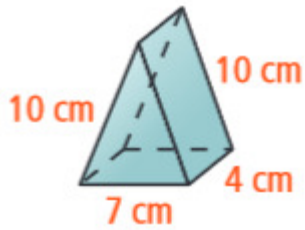
1.



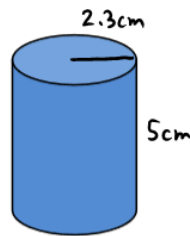
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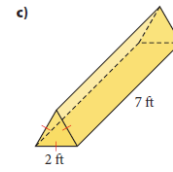
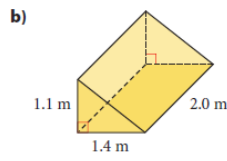
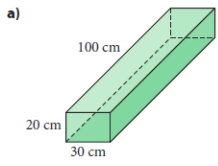
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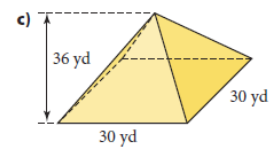
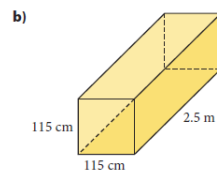
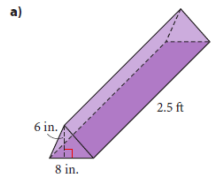
4.



5. For each of the following draw a **net** (unwrapped, flat version) of the shape provided, then find the surface area of the object.



6. Find the volume of each shape



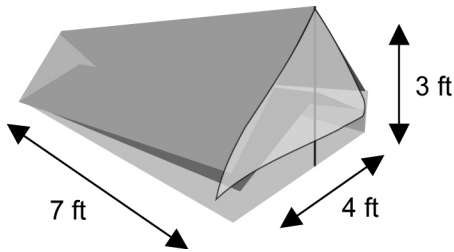


**Practice TEST**

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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
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  
**D** eight 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.
7. Convert each measure using the indicated units.  
**a)** 320 km            miles  
  
**b)** 56 gal            litres  
  
**c)** 120 mL            tablespoons  
  
**d)** 16 lb            grams

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



- a) What is the volume of the tent?

- b) Find the slanted length of the roof.

- c) Draw the net and label dimensions

- d) How much material (surface area) 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 in gallons.

12. The volume of the cone is  $750 \text{ ft}^3$ . Find the radius of this cone.

