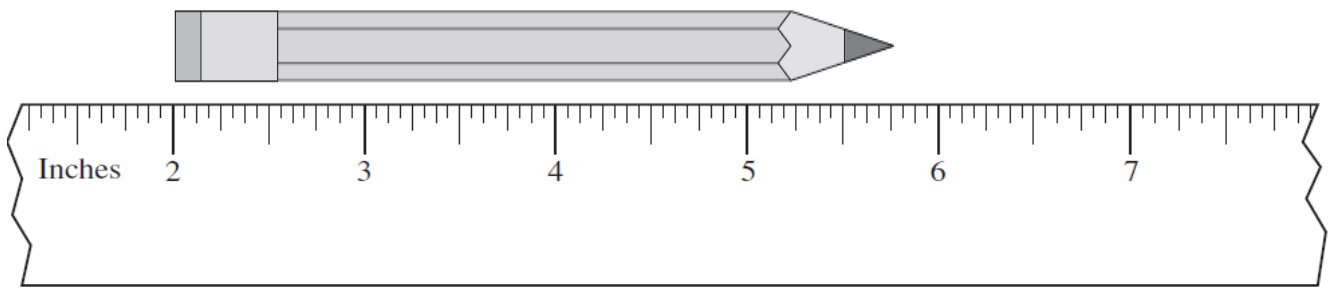


Part I: Selected Response

Circle the letter of the best possible answer.

1. Which is a better buy?
 - a. 12 oz can of soup at \$2.39 or a 18 oz can at \$3.69?
 - b. 200 bricks at \$193.40 or 260 brick at \$274.30?
 - c. 16 kg bag of flour at \$7.19 or 20 kg bag at \$9.29?
 - d. 1 liter of paint at \$12.37 or 3.78 liters at \$43.20?
2. The original price of a lazy boy recliner valued at \$929.00 with a mark down to \$799.95. What was the percent of decrease?
3.
 - a) Convert 25 degrees Celsius into Fahrenheit.
 - b) Convert 212 degrees Fahrenheit into Celsius.
4. If it costs \$2.10 for 100 g of white fish, how much will it cost to buy 350 g?
5. A two-dollar coin is approximately 28 mm in diameter.
 - a. What is the width in centimetres?
 - b. What is the width in metres?
6. Karen is making a batch of potato soup. She needs 8 potatoes, and each potato weighs about 375 g. How many pounds of potatoes does she need?
7. Calculate the unit price per 100 grams if four hundred grams of hamburger costs \$4.50.
8. A flat of juice cans contains 36 cans. Each can contains 342ml. How many litres of juice would be in 75 flats?
9. Walmart rolled backed the price of their cereal from \$5.49 to \$3.97. Calculate the percent **decrease** in price.
10. You are planning to attend Project Help Mexico with the school this year so you can build houses for families in Mexico. The teacher in charge of the trip tells you to bring along approximately 1200 pesos. How much will that cost you in Canadian dollars? (1 peso = \$0.108443 Canadian)
11.
 - a) What metric unit of measure would best describe the weight of a pencil?
 - b) What imperial unit of measure would best describe the weight of a dog?
12. A roadside sign indicates a school-bus stop in 0.3 km. How far is the sign from the bus stop in feet?

13. Keenan has to fill up a 6 litre water pail using a barrel. How many pails of water will it take to fill the 10 US gallon container?
14. Your friend Bob and his parents are going to Disneyland. They invite you to come along and tell you all you need to do is bring money to get into Disneyland and pay for food while you are there. They tell you to bring the equivalent of \$300 Canadian in American dollars. How much American money is \$300 Canadian? (1 American dollar = \$1.038650 Canadian)
15. A Canadian flag is 64cm by 32cm.
 - a. What is the area of the flag in cm^2 ?
 - b. What is the area of the flag in square metres?
16. Rebecca is planning to install sod in her backyard, which is 18.2 m by 9.8 m. If sod costs \$0.28/ ft^2 , how much will it cost to sod the backyard?
17. How long is this pencil to the nearest inch?

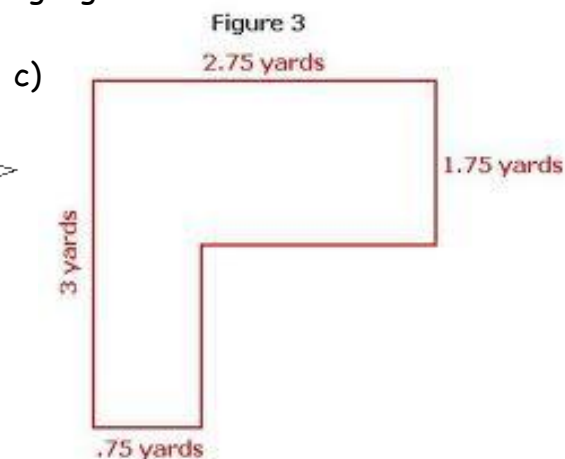
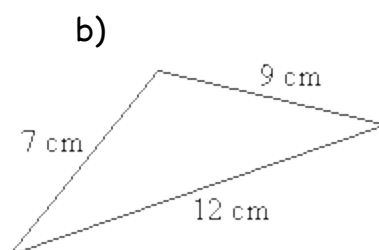
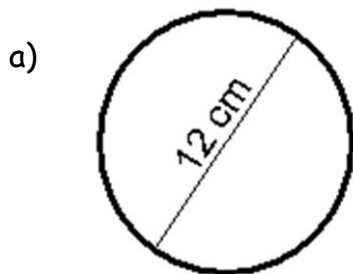


18. Benjamin owns an older American truck. The odometer shows distance travelled in miles. On a recent trip to deliver produce for his employer, he drove 1564 mi. His employer pays him \$0.89/km for the use of his own truck. How much will he be reimbursed for the use of his truck for the trip?
19. A rectangular school yard 260 meters by 275 meters is to be fenced. How many **feet** of fencing will be required to fence it completely?
20. A school custodian must mark off a field that is 150 ft by 85 ft. His tape measure is marked in metres. What are the dimensions of the field in metres (to the nearest tenth of a metre.)?
21. A circle has a circumference of 347.5 inches. What is the **diameter** of the circle? Use 3.14 for π .
22. What is the **girth** of the following package?



23. A store advertises a circular rug as being 5 m^2 . Travis wants a rug to fit a rectangular space that is 2.5 m by 2.2 m. Will this rug fit?
24. A rectangular poster is 6 feet long and 30 inches wide. Which is the area of the poster?
25. The diameter of a circle is 34.8 cm. What is the approximate area?
26. The area of a picture is 2398 cm^2 . Express this area in mm^2 .
27. Darma is edging a tablecloth with lace. The tablecloth is 210 cm by 180 cm. How much lace does she need?

28. Calculate the **perimeter (circumference)** of the following figures.



29. The area of a rectangular shaped property is 3280 square metres, what is the width if the length is 41 m?
30. You were paving a road with heated tar during a hot summer day. You noted that the external temperature of the tar was 48°C . What was this in degrees Fahrenheit?

Part II: Constructed Response

Answer the following questions in the spaces provided.

Be sure to show ALL workings and formula as full marks will not be given for answers only.

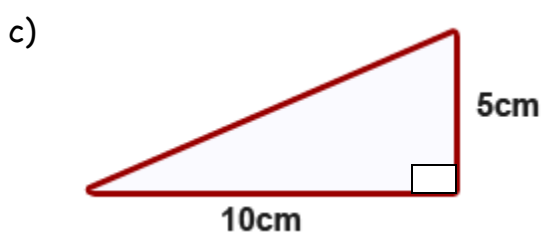
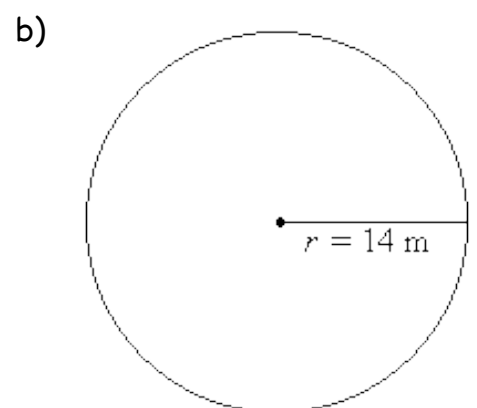
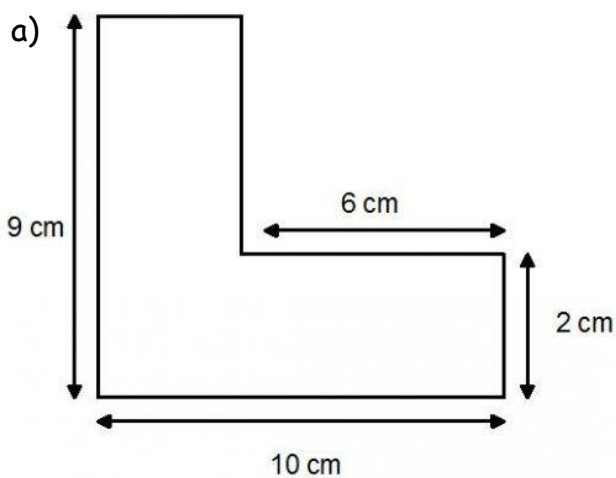
- The meat department at a large supermarket sells boneless steaks at the following prices: \$7.60 for 500g; 12.60 for 1Kg (1000g); 19.60 for 1.5Kg (1500g).
 - Which of these packages has the lowest unit price?
 - If a customer needs 2.5Kg (2500g), which combination of packages should he or she buy to get the best price but not have leftover meat?

2. A) You go to the store and you want to buy a bag of chips. The type you want comes in a 200g bag for \$1.00 or a 750g bag for \$2.70. Which size is the better value?
B) You go to the store and find that you can buy 2 frozen pizzas for \$15.75. How much will it cost you to buy 5 frozen pizzas?
3. Cindy sells bananas for 69¢ a **pound**. A local competitor advertises bananas for \$1.49 per **kilogram**. Does Cindy have a better price? Show all workings.
4. The average temperature in Fort Nelson is -1.9°C . The average temperature in Moscow, Russia is 42.4°F . Which temperature is higher and by how much? (You can use either Fahrenheit or Celsius.)
5. Emily is going on a vacation to Europe. She has \$2000 Canadian she wants to convert to Euros. The bank rate for Euros is 1 euro = 1.4056 .
a) How many Euros will Emily get for her \$2000?
b) Emily returns to Canada with 342.23 Euros. How many Canadian dollars will she get when she converts this back into Canadian Dollars?
6. A low bridge has a posted maximum vehicle height of 7'5" . Your truck is 2.4 m high.
a) Will it fit under the bridge?
b) What is the height of the bridge in metres?
c) What is the height of truck in feet?
7. You look in the newspaper and find an advertisement for a TV you want to buy. It is normally \$599.95, but it is on sale for \$449.89. What percent of a discount (**decrease**) are you receiving?
8. Jessica is building a pen for her dog. The perimeter of the pen will be 8250 inches.
a) What will the perimeter of the enclosure be in **feet and inches**?
b) The wire mesh is sold by the foot. It costs \$1.19/ft. What will be the cost of the materials?
9. Niko wants to paint 2 walls of his bedroom. One wall measures 7 ft by 8 ft while the other wall is 15 ft by 8 ft. What is total area, in **metres**, of the two walls that Niko wants to paint?

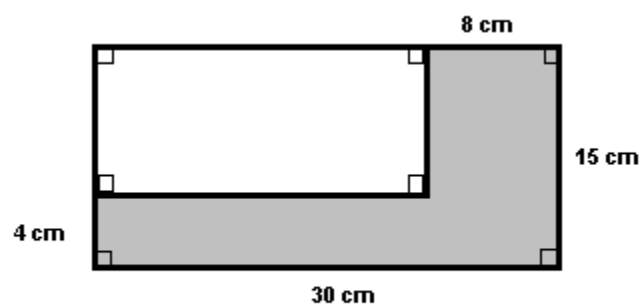
(Hint: Either convert the dimensions and then find the area or find the area and then convert.)
10. Suzanne purchased tiles for her patio that are 14" by 10". She measured her patio in metres and wants to convert the tile dimensions to SI units.
a) What are the dimensions of the tiles in **centimetres**?
b) What is the area of the patio in cm^2 ?

11. Hayden determined that the area of his porch was 605 sq ft. If concrete costs \$19.50 per sq yd, how much will cost Hayden to use concrete for his porch?
12. A restaurant cooks 200, 8oz steaks for their weekly steak cookout, how many pounds of meat will they require?
13. Convert the following measurements.
 - a. 42 inches to feet
 - b. 16 inches to feet and inches
 - c. 4 ft to in
 - d. 96 in to yd
 - e. 3 yards to inches
 - f. 4 yards to feet
 - g. 5 miles to yards
 - h. 90 yd to mi

14. Determine the area of each figure:



d) Shade region:



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