

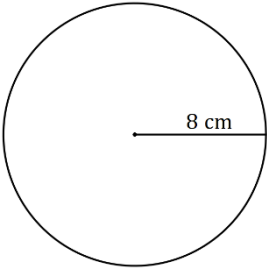
Grade 7 Math – Unit 4 Test

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

Multiple Choice – Place the letter of the best response in the answer box.

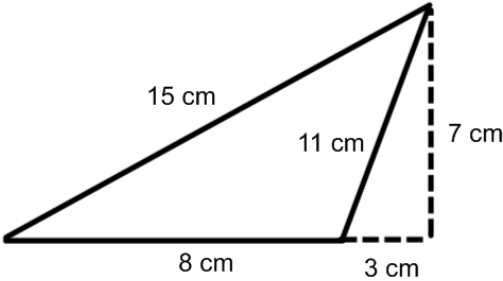
1. What is the diameter, in cm, of the circle below?

- (A) 4
- (B) 8
- (C) 16
- (D) 50



2. What is the area, in  $\text{cm}^2$ , of the following triangle?

- (A) 28
- (B) 38
- (C) 56
- (D) 77



1.)	
2.)	
3.)	
4.)	
5.)	
6.)	
7.)	
8.)	
9.)	
10.)	

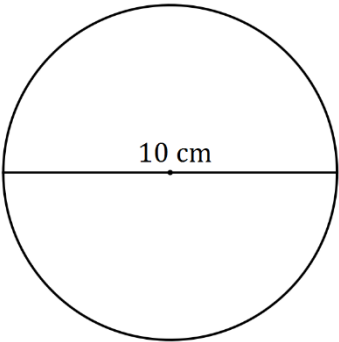
\_\_\_\_\_ = \_\_\_\_\_ %  
30

3. A circle has a circumference of 66 cm. What is the best **estimate** for the diameter, in cm?

- (A) 11
- (B) 22
- (C) 33
- (D) 44

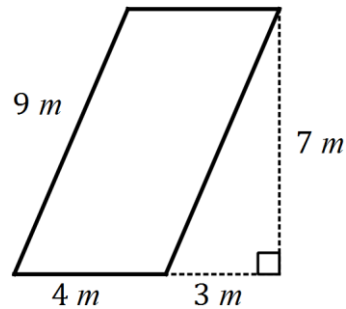
4. What is the area, in  $\text{cm}^2$ , of the circle below?

- (A) 79
- (B) 157
- (C) 491
- (D) 2125



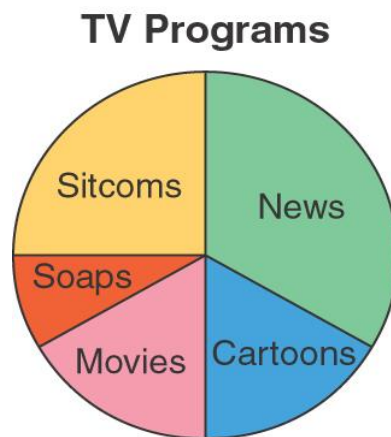
5. What is the area, in  $\text{m}^2$ , of the parallelogram?

- (A) 14
- (B) 28
- (C) 36
- (D) 49



6. In a survey, people were asked which type of TV Program was their favourite. Based on the graph, approximately, what percent of people preferred watching news?

- (A) 25%
- (B) 40%
- (C) 50%
- (D) 65%



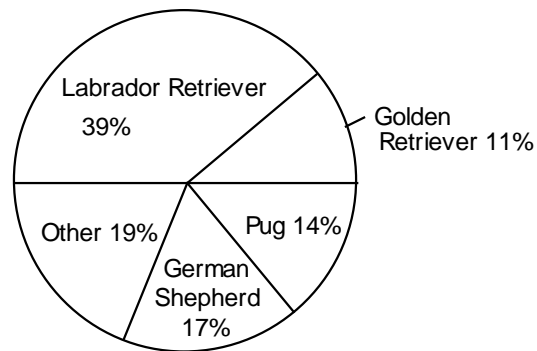
7. For the graph in Question 7, if 400 people were surveyed, how many people preferred Sitcoms?

- (A) 25
- (B) 50
- (C) 100
- (D) 200

8. Based on the diagram below, if there are 300 dogs registered in total, how many are German Shepherds?

- (A) 17  
(B) 51  
(C) 72  
(D) 112

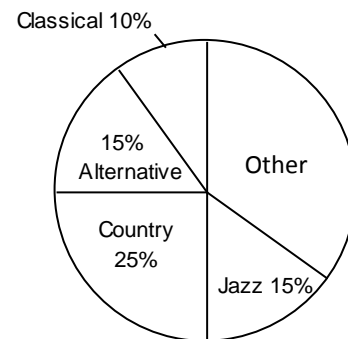
**Breeds of Registered Dogs**



9. What percentage of people prefer "Other"?

- (A) 30%  
(B) 35%  
(C) 40%  
(D) 45%

**Music Preference**



10. The table below show how many students preferred 4 different brands of soft drink. What percent of students preferred Root Beer?

Soft Drink	Coke	Sprite	Root Beer	Pineapple Crush
# of students	15	20	10	5

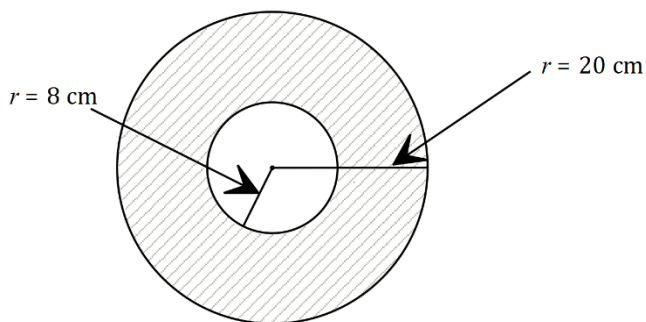
- (A) 10%  
(B) 20%  
(C) 30%  
(D) 40%

**Constructed Response – Answer all questions in the space provided. Include all units in final answers and show all workings where appropriate.**

11. A. Jill is putting a rock border around a circular flower garden with a radius of 3.5 m. If the rock costs \$11.99 a metre, how much will she need to spend? [2 marks]

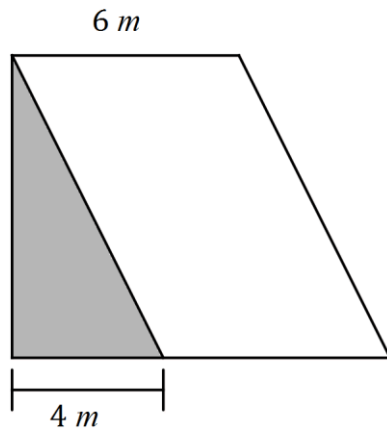
B. If she wishes to put down a circular mat inside the garden, what is the area of the mat? [2 marks]

12. The inside circle of a donut has a radius of 8 cm. What is the area of the top of the donut? [3 marks]



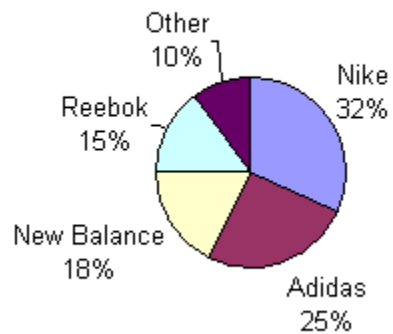
13. The area of the parallelogram below (in white) is  $48 \text{ m}^2$ . What is the area of the triangle?

[3 marks]



14. The graph below shows how many sneakers were sold at a shoe store in January.

**Sneakers Sold This Month**



- A. Which 2 types of sneakers made up over half of the sales? [1 mark]
- B. If there were 280 pairs of sneakers sold during the month, how many of them were Reebok? [1 mark]

15. The Grade 7 students at CBI were surveyed to see what their favourite sport was. 35 liked Volleyball, 20 liked Basketball, 56 liked Dodgeball, and 14 liked Tiddlywinks.

A. Complete the table below

[4 marks]

Sport	Frequency	Fraction	Decimal	Percent	Degrees
Volleyball					
Basketball					
Dodgeball					
Tiddlywinks					
Total					

B. Construct a circle graph, **including a title**.

[4 marks]

Title: \_\_\_\_\_

