

Name _____

Date _____

Area and Circumference of a Circle - Matching Worksheet

Match the word problems to their answers. Write the letter of the answer that matches the problem. Use 3.14 for pi. Units of measurements are removed.

- _____ 1. Patricia buys a round dinner table. The radius of dinner table is 6 meters. What is the area of table? a. 56.52
- _____ 2. Charles has a circular carpet in his drawing room. He wants to put a circular table in middle of the carpet. The diameter of the carpet is 12 meters and the diameter of the table is 4 meters. Calculate how much area of carpet is left after putting the table in place? b. 113.04
- _____ 3. Steven purchases a bowl. The diameter of the bowl is 14 cm. What is the circumference of the bowl? c. 43.96
- _____ 4. Daniel wants to buy cookies for her friend. The radius of a cookie is 5 inches. What is the cookie's circumference? d. 50.24
- _____ 5. Donna makes a round pizza. She wants to put a cheese layer on the pizza. If the cake is 8 cm in diameter, how many square cm of cheese layer does she need to put on the pizza? e. 19.625
- _____ 6. Cynthia wants to buy a round photo frame for her brother. The radius of the photo frame is 9 cm. What is the photo frame's circumference? f. 100.48
- _____ 7. Brian made a tasty burger. The diameter of the burger was 5 cm. What was the area of burger? g. 31.4



Circumference and Area word problems

1) The earth has a diameter of 7926.41 miles. What is the circumference of the earth? (This would be the distance you would have to walk, if you could walk around the equator.)

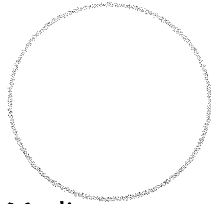


Circumference = _____

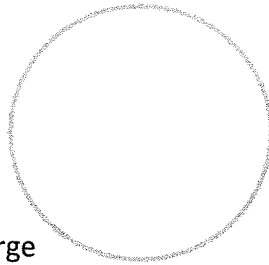
2) Mr. Falcone's pizza shop offers three sizes of pizza. The small, medium and large pizzas have diameters of 8 inches, 10 inches and 12 inches.



Small



Medium



Large

a) What is the circumference of each size of pizza?

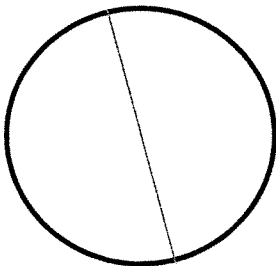
Small = _____ Medium = _____ Large = _____

b) What is the area of each size of pizza?

Small = _____ Medium = _____ Large = _____

c) Joey is very hungry. He says he wants to eat a 100-square-inch area of pizza. Which size(s) of pizza should he order? Why?

3) A bicycle wheel has a diameter of 21 inches. What is the circumference of this wheel? What is the radius?



Radius = _____

Circumference = _____