

Name: _____

Date: _____

8.2 Circumference of a Circle

MathLinks 7, pages 273–279

Key Ideas Review

Write the word or letter from column B that matches each description in column A.

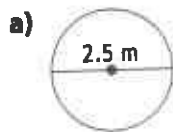
A	B
1. The _____ of a circle is approximately three times its _____.	a) circumference b) pi c) diameter d) radius
2. Pi represents the ratio of the _____ of a circle to its _____.	
3. The value of _____ is approximately 3.14.	
4. The formula often used to find the circumference of a circle is _____ times the _____.	
5. Another formula often used to find the circumference of a circle is two times _____ times the _____.	

Practise and Apply

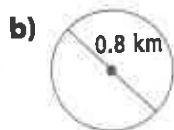
Use 3.14 for π in the calculations in this section.

Round all answers to the nearest tenth of a unit.

6. Estimate the circumference of each circle.

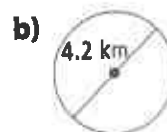
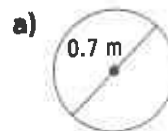


Estimate: _____



Estimate: _____

7. Calculate the circumference of each circle.

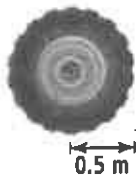


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8. Estimate and then calculate the circumference of each circle.

a)



Estimate: _____

Calculation:

b)



Estimate: _____

Calculation:

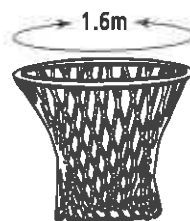
9. Calculate the circumference of the circle.



10. a) A circle has a circumference of 32.97 cm. What is the radius of the circle? Show your thinking.

b) If the radius of a circle is doubled, how does the circumference change? Use an example to show how you know.

11. a) A basketball hoop has a circumference of 1.6 m. What is the approximate diameter of the biggest basketball that can fit through the hoop? Show your thinking.



b) Max wants to fit three mini-basketballs through the hoop at the same time. If one mini-basketball has a diameter of 0.2 m, can three of them fit through the hoop at the same time? Show how you know.