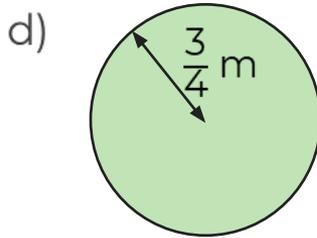
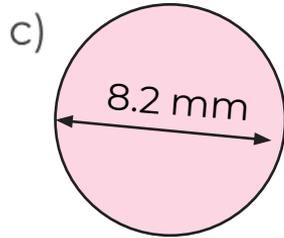
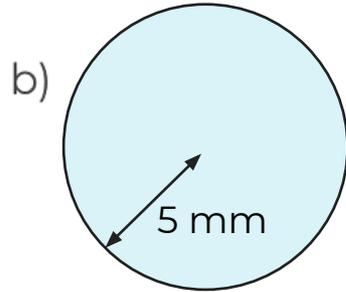
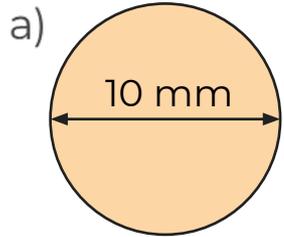


# Find the Circumference of a Circle



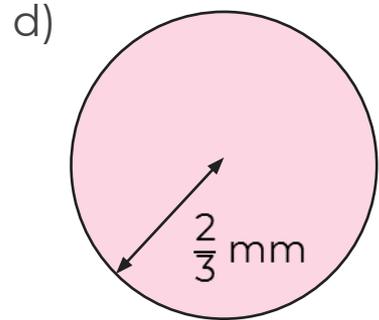
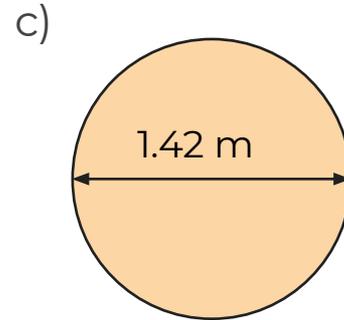
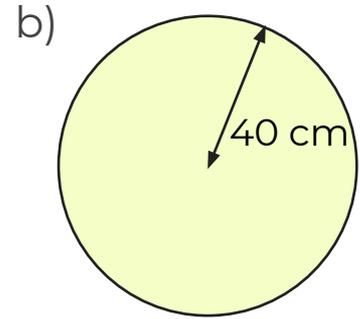
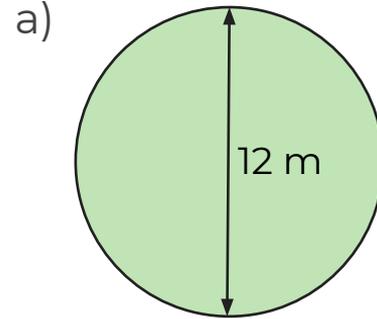
# Find the Circumference of a Circle

1. Find the circumference of these circles in terms of  $\pi$ .



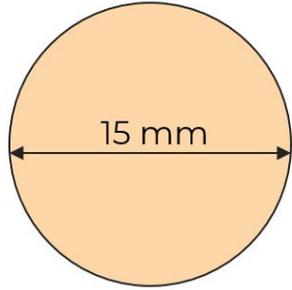
2. Explain why two of the circles in question 1 have the same circumference.

3. Find the circumference of these circles to three significant figures.



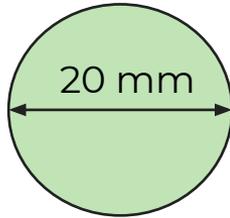
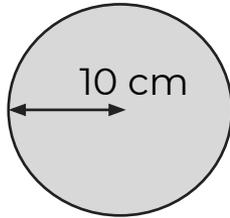
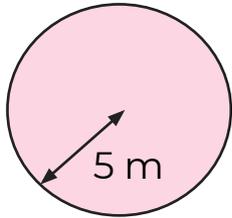
# Find the Circumference of a Circle

4. Spot the mistake.



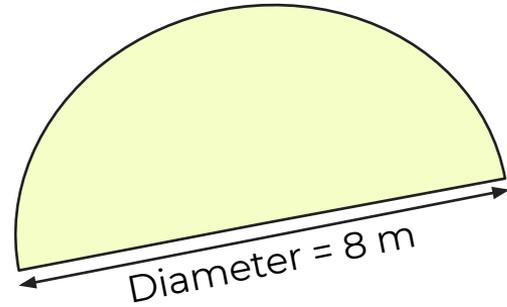
Circumference  
 $15\pi$

5. Place these circles, in terms of the lengths of their circumference, in ascending order.



6. A wheel with a diameter of 30 cm is rolled 50 m. How many complete revolutions does the wheel make?

7. Find the perimeter of the semicircle, giving your answer to three significant figures.

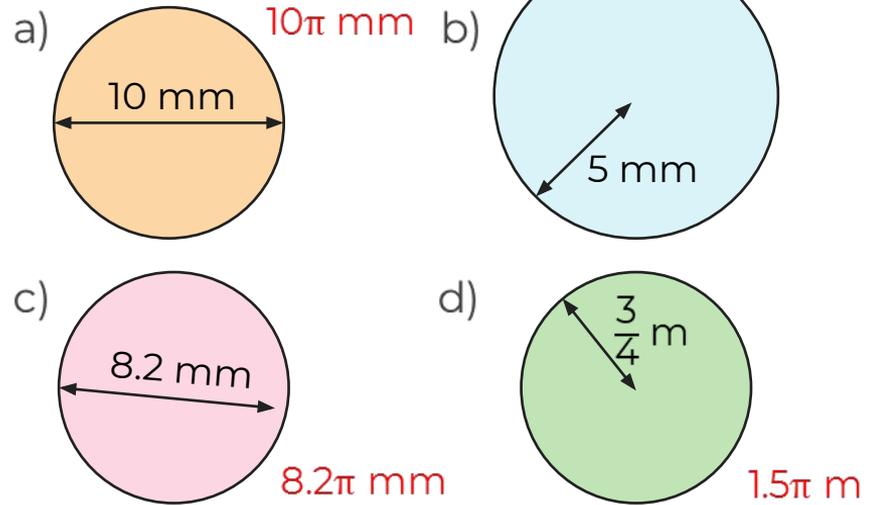


# Answers



# Find the Circumference of a Circle

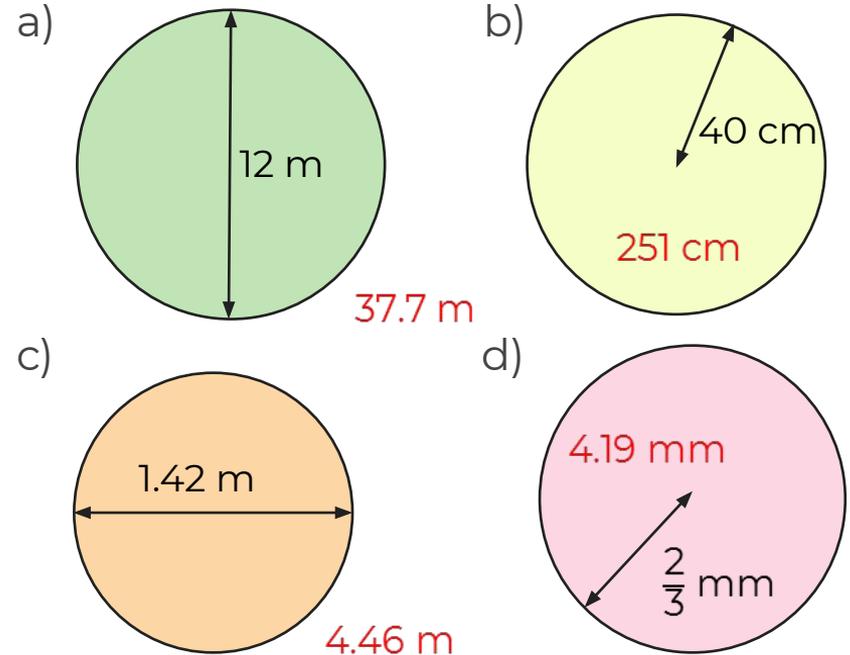
1. Find the circumference of these circles in terms of  $\pi$ .



2. Explain why two of the circles in question 1 have the same circumference.

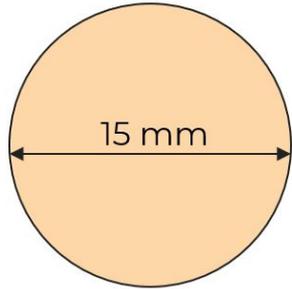
Circles a and b have the same diameter

3. Find the circumference of these circles to three significant figures.



# Find the Circumference of a Circle

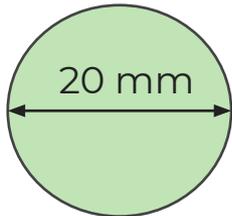
4. Spot the mistake.



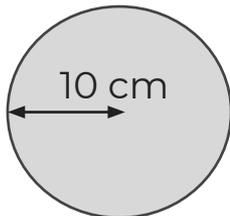
Circumference  
 $15\pi$

No units of measurement

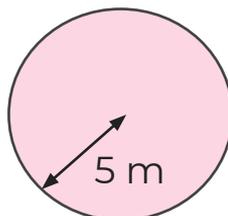
5. Place these circles, in terms of the lengths of their circumference, in ascending order.



$20\pi$  mm



$20\pi$  cm

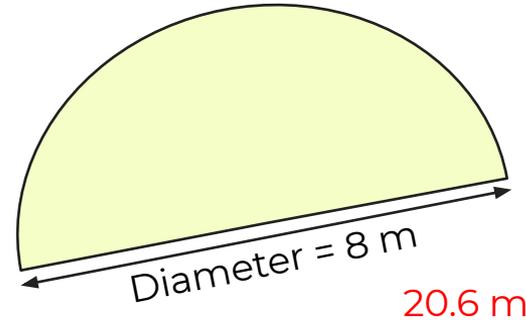


$10\pi$  m

6. A wheel with a diameter of 30 cm is rolled 50 m. How many complete revolutions does the wheel make?

$$5000 \div 30\pi = 53.051 \dots \quad 53 \text{ revolutions}$$

7. Find the perimeter of the semicircle, giving your answer to three significant figures.



20.6 m

