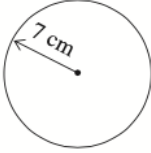


**QUESTION 2** By using  $\frac{22}{7}$  as the value of  $\pi$ , find the approximate length of the circumference for these circles.

**a**

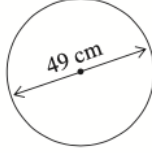



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**b**

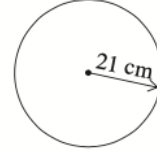



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**c**




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**QUESTION 3** Find, to one decimal place, the circumference of a circle with:

**a** radius 11 km

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**b** diameter 57 m

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**c** radius 23 cm

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**d** diameter 94 cm

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**e** diameter 78 mm

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**f** radius 19 m

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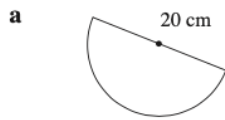
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Answers

**2 a** 44 cm **b** 154 cm **c** 132 cm **3 a** 69.1 km **b** 179.1 m **c** 144.5 cm **d** 295.3 cm **e** 245.0 mm **f** 119.4 m

## UNIT 3: Applications of circumference

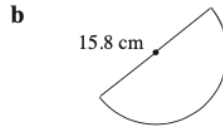
**QUESTION 1** Calculate the total perimeter of the following semicircles correct to one decimal place.




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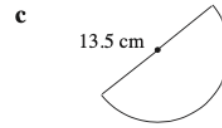
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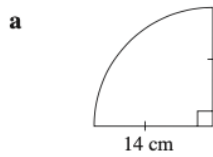



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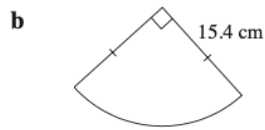
**QUESTION 2** Find the total perimeter of these quadrants.




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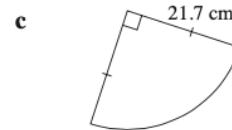
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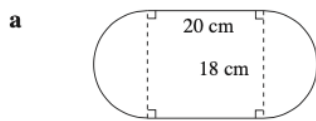



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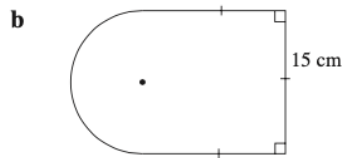
**QUESTION 3** Find the perimeter of each of these figures correct to one decimal place.




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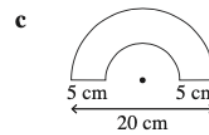
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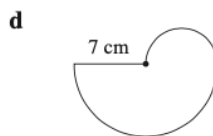
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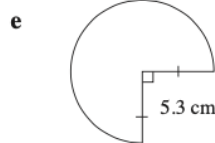
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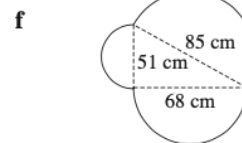
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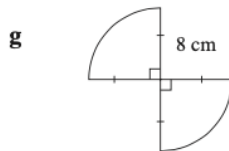
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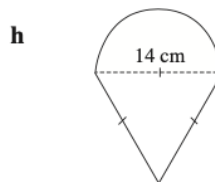
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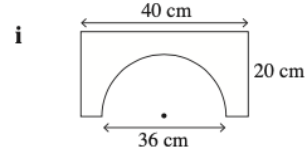
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Answers

**Page 105** **1 a** 51.4 cm **b** 40.6 cm **c** 34.7 cm **2 a** 50 cm **b** 55 cm **c** 77.5 cm **3 a** 96.5 cm **b** 68.6 cm **c** 57.1 cm **d** 40.0 cm

**e** 35.6 cm **f** 320.4 cm **g** 57.1 cm **h** 50.0 cm **i** 140.5 cm