

SM2 12.3 answers

1a. $\frac{13}{2}\pi$ inches

1b. 20.42 inches

2a. 4π miles

2b. 12.57 miles

3a. $\frac{63}{2}\pi$ km

3b. 98.96 km

4a. $\frac{20}{3}\pi$ m

4b. 20.94 m

5a. 5π inches

5b. 15.71 inches

6a. $\frac{77}{6}\pi$ miles

6b. 40.32 miles

7a. 96π m²

7b. 301.59 m²

8a. $\frac{27}{2}\pi$ ft²

8b. 42.41 ft²

9a. $\frac{50}{3}\pi$ m²

9b. 52.36 m

10a. $\frac{245}{12}\pi$ ft²

10b. 64.14 ft²

11a. $\frac{49}{3}\pi$ m²

11b. 51.31 m²

12a. 36π ft²

12b. 113.10 ft²

13 inscribed: $\angle DAC$ or $\angle ABD$

Central:

$\angle DEC, \angle CEB, \angle BEA$ or $\angle AED$

119°, 61°, 30.5°

14) 145°

15) 63°

16) $x \approx 8.9$