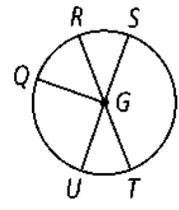


10.4 – Circumference and Arc Length

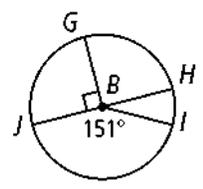
Name the following in $\odot G$.

- 1) the minor arcs
- 2) the major arcs
- 3) the semicircles

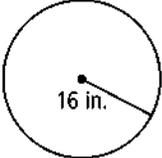
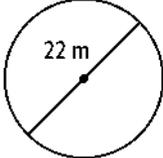
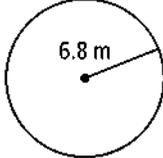


Find the measure of each arc in $\odot B$.

- | | | |
|--------------------|--------------------|--------------------|
| 4) \widehat{GJ} | 5) \widehat{HI} | 6) \widehat{HIJ} |
| 7) \widehat{GJI} | 8) \widehat{GHJ} | 9) \widehat{GJH} |



Find the circumference of each circle. Leave your answers in terms of π .

- | | | |
|---|---|---|
| 10)  | 11)  | 12)  |
|---|---|---|

For the following, leave your answers in terms of π .

- | | |
|--|---|
| 13) If $r = 10.5\text{ cm}$, find C . | 14) If $C = 25\pi\text{ cm}$, find r . |
| 15) If $C = 9.6\pi\text{ cm}$, find d . | 16) If $d = 12\text{ cm}$, find C . |

17) What is the circumference of a circle whose radius is 30 cm?

18) What is the diameter of a circle whose circumference is 24π cm?

19) A square with sides that measure 2 cm is inscribed in a circle. Find the circumference of the circle.

20) A dinner plate fits snugly in a square box with perimeter 48 inches. What is the circumference of the plate?

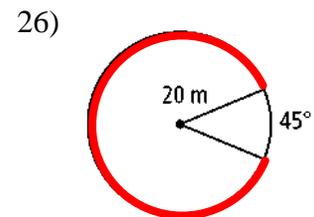
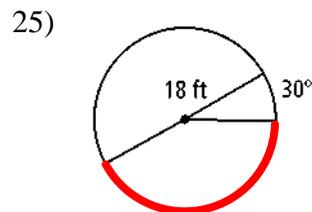
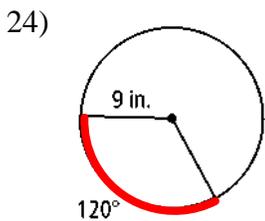
In the following, round your answer to the nearest 0.1 unit. Use the symbol \approx to show that your answer is an approximation.

21) If $d = 9.6$ cm, find C .

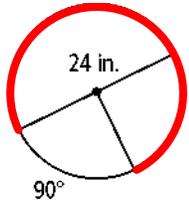
22) If $r = 8.1$ cm, find C .

23) If $C = 132$ cm, find d and r .

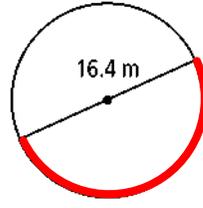
Find the length of each red arc. Leave your answer in terms of π .



27)



28)



29)

