Name

Answers (Partial)

Date

10.4 – Circumference and Arc Length

Name the following in $\bigcirc G$.

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

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

4)	ĜĴ	5)	Î	6)	ĤIJ
7)	GJI	8)	GHJ	9)	GJH



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



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

- 13) If r = 10.5 cm, find *C*.
 - C= 2/17 cm
- 15) If $C = 9.6\pi$ cm, find d.
 - d = 9.6 cm

14) If $C = 25\pi$ cm, find r.

r= 12.5 cm

16) If d = 12 cm, find C.

C=12mcm

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



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



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



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

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

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- 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.

C ~ 30.1 cm

C ~ 50.9cm



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







