

GRADE 10 ESSENTIAL UNIT D – 2D GEOMETRY
CIRCUMFERENCE PUZZLE 2

Name: _____
Date: _____

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Answers A – I:

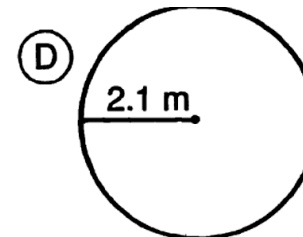
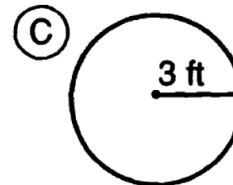
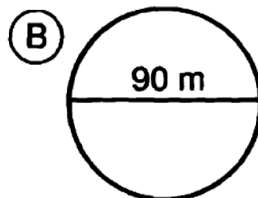
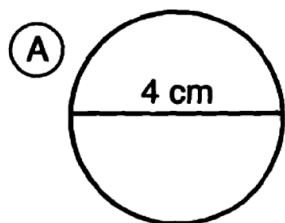
18.84 ft	GUY
71.8 ft	HELPED
1,570 m	BOX
51 ft	HAMBURGER
11.932 cm	A
12.56 cm	THE
44 ft	VEGETABLES
13.188 m	WHO
1,630 m	BIG
282.6 m	SILLY
31.4 cm	OF
62.8 ft	DUMPED
11.542 cm	OFF

Did You Hear About

A	B	C	D	E	F
G	H	I	J	K	L
M	N	O	P	Q	R
					?

Find each answer in the appropriate answer column and notice the word under it.
Write this word in the box containing the letter of the exercise.

I. Determine the circumference of each circle. Use $\pi = 3.14$.



(E) $d = 20$ ft

(F) $d = 3.8$ cm

(G) $r = 250$ m

(H) $r = 5$ cm

Answers J – R:

$5\frac{2}{7}$ in.	FRESH
22 in.	HE
37.68 ft	EARTH
88 in.	ON
34.5 ft	SUBMARINE
660 mm	WANTED
132 mm	BECAUSE
84.78 in.	ON
154 mm	THE
720 mm	JUMPED
$4\frac{5}{7}$ in.	PEAS
143 mm	TOP
33 ft	GROUND

II. Determine the circumference of each circle. Use a value for π of $\frac{22}{7}$

Ⓘ $d = 14$ ft

⓵ $d = 28$ in.

Ⓚ $d = 49$ mm

Ⓛ $d = 10\frac{1}{2}$ ft

Ⓜ $r = 21$ mm

Ⓝ $r = 3\frac{1}{2}$ in.

Ⓞ $r = 105$ mm

Ⓟ $r = \frac{3}{4}$ in.

↑ *In the 'old days' (70s) we did not use decimals since we had no calculators. We used $22 \div 7$ for the value of pi. You will need to know fractions here or at least know how to handle them on your calculator!*

III. Solve the word problems. Use a value of 3.14 for π .

Ⓚ The wheels on a bicycle have a diameter of 27 in. How far does the bicycle travel with each turn of the wheels?

Ⓡ The minute hand of a large clock is 6 ft long. How far does the point of the hand move in one hour?