

**GRADE 10 ESSENTIAL GEOMETRY  
CIRCUMFERENCE OF A CIRCLE**

Name: \_\_\_\_\_  
Date: \_\_\_\_\_

**Why Did the Piano Player Bang Her Head  
Against the Keyboard?**

Find the Circumference (**C**) of each circle, given the diameter (**d**) or radius (**r**).  
**Use 3.14 for  $\pi$ .** Draw a **straight line** (with a ruler) connecting the square by the exercise to the symbol by its answer. The line will cross a number and a letter. Write the letter in the matching numbered box below.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
								A									

① $d = 3$ cm ◆	$3.14 \times 3 = 9.42$	◆ $C = 125.6$ in.
② $d = 8$ in. ◆	⑨	⊕ $C = 31.4$ cm
③ $d = 7$ cm ◆	⑬	◆ $C = 94.2$ in.
④ $d = 40$ in. ◆	⑩	◆ $C = 9.42$ cm
⑤ $d = 9.2$ cm ◆	⑮	◆ $C = 72.22$ in.
⑥ $d = 1.5$ in. ◆	②	⊕ $C = 301.44$ in.
⑦ $d = 600$ m ◆	③	◆ $C = 25.12$ in.
⑧ $d = 23$ in. ◆	⑦	◆ $C = 15.7$ in.
⑨ $d = 10$ cm ◆	⑤	◆ $C = 28.888$ cm
⑩ $r = 1$ in. ◆	④	◆ $C = 13.816$ cm
⑪ $r = 6$ cm ◆	⑫	⊕ $C = 15.7$ cm
⑫ $r = 15$ in. ◆	⑰	◆ $C = 21.98$ cm
⑬ $r = 2.2$ cm ◆	①	◆ $C = 6.28$ in.
⑭ $r = 48$ in. ◆	⑭	⊕ $C = 314$ m
⑮ $r = 3.9$ cm ⊕	⑱	⊕ $C = 4.71$ in.
⑯ $r = 2.5$ in. ◆	⑩	◆ $C = 37.68$ cm
⑰ $r = 2.5$ cm ◆	⑧	◆ $C = 24.492$ cm
⑱ $r = 50$ m ◆		◆ $C = 1,884$ m

*Note: A red arrow points from the calculation  $3.14 \times 3 = 9.42$  to the answer  $C = 9.42$  cm. Another red arrow points from the circled '9' in the answer key to the circled '9' in the matching box.*

