CSS General Abilities Topic 3 Geometry

Sr	Questions	Answers Choice
1	Question Image	A. 5√2 B. 10 C. 11 D. 13
2	In a Δ ABC, if 2 ∠ A = 3 ∠ B = 6 ∠ C, then ∠ A is equal to	A. 60° B. 30° C. 90° D. 120°
3	In Δ ABC, ∠ A = 30° , a = 6, and c = 8. Which of the following must be true ?	A. 0° < ∠C < 90° B. 90° < ∠C < 180° C. 45° < ∠C < 135° D. 0° < ∠C < 45° or 130° < ∠C < 180°
4	Find the length of the longer diagonal of a parallelogram if the sides are 6 inches and 8 inches and the smaller angle is 60°.	A. 8 B. 11 C. 12 D. 7
5	If A is the area and C the circumference of a circle, which of the following is an expression for A in terms of C ?	A. $C^2/4\pi$ B. $C^2/4\pi^2$ C. 2C D. $2C^2\sqrt{\pi}$
6	Question Image	A. 8 B. 20 C. 8π D. 20π
7	The angles of triangle are in a ratio of 8 : 3 : 1. The ratio of the longest side of the triangle to the next longest side is	A. √6:2 B. 8 : 3 C. √3:1 D. 8 : 5
8	The complement of 30° 20' is	A. 69° 40' B. 59° 40' C. 35° 80' D. 159° 40'
9	Question Image	A. 12 B. 24 C. 36 D. 48
10	What is the circumference of a circle whose area is 100π ?	A. 10 B. 20 C. 10π D. 20π
11	Question Image	A. 19 + 5 √2 B. 28 C. 17 + √185 D. 32
12	In ΔABC, D and E are the mid-points of AB and AC, respectively. Find the ratio of the areas of Δ ADE and Δ ABC.	A. 1/2 B. 1/4 C. 3/4 D. 1/8
13	Question Image	A. 25/81 B. 25/16 C. 16/25 D. 16/81

14	If the measures of the angels of a triangle are in the ratio of 1 : 2 : 3, what is the ratio of the length of the smallest side of the triangle to the length of the longest side of the triangle?	A. 1 : 2 B. 1 : 3 C. 1 : 5 D. 2 : 3
15	Question Image	A. BC < CA < CD B. BC > CA > CA C. BC < CA, CA > CD D. BC > CA, CA < CD
16	Question Image	A. 35° B. 45° C. 55° D. 65°
17	Question Image	A. 21 B. 38 C. 42 D. 69
18	If the length of a rectangle is 4 times its width, and if its area is 144, what is the perimeter ?	A. 6 B. 24 C. 30 D. 60 E. 96
19	Question Image	A. 1.5 B. 3 C. 2 D. 3.6
20	Question Image	A. 180 cm2 B. 240 cm2 C. 120 cm2 D. 150 cm2