CSS General Abilities Topic 3 Geometry

Sr	Questions	Answers Choice
1	What is the measure of the angle formed by the minute and hour hands of a clock at 1:50?	A. 90^o B. 95^o C. 105^o D. 115^o
2	An angle is equal to one-third of its supplement. Its measure is equal to	A. 40^o B. 50^o C. 45^o D. 55^o
3	Question Image	A. 8 + √41 B. 8 + √58 C. 16 D. 17
4	Question Image	A. a > 4√3 B. a > 8 C. a = 4√3 D. 4√3 < a < 8
5	In ΔABC, the measure of the exterior angles at vertices A and B are 145^{o} and 125^{o}, respectively. Which of the following statement about ΔABC above must be true. i. The triangle is a right triangle. ii. The triangle is an isosceles triangle. iii. The triangle is a scalene triangle.	A. None B. I only C. III only D. I and III only
6	Question Image	A. 5√2 B. 10 C. 11 D. 13
7	The complement of 30^{o} 20' is	A. 69^o 40' B. 59^o 40' C. 35^o 80' D. 159^o 40'
8	Question Image	A. 90^o B. 120^o C. 60^o D. 100^o
9	Question Image	A. 20^o B. 30^o C. 45^o D. 45^o
10	Question Image	A. 2.25 cm B. 4.5 cm C. 1.25 cm D. 2.5 cm
11	Question Image	A. 50^o B. 90^o C. 100^o D. 120^o
12	Question Image	A. 24 B. 32 C. 40 D. 48 E. 60
13	Question Image	A. 108 B. 54+72√2 C. 54+72√3 D. 198
14	Question Image	A. 8 B. 20 C. 8π D. 20π
		A.

15	In Δ ABC, ∠ A = 30^o , a = 6, and c = 8. Which of the following must be true ?	0^o < ∠C < 90^o B. 90^o < ∠C < 180^o C. 45^o < ∠C < 135^o D. 0^o < ∠C < 45^o or 130^o < ∠C < 180^o
16	Two sides of a right triangle are 12 and 13, which of the following could be the length of the third side ? i. 5 ii. 11 iii. √313	A. 1 only B. 2 only C. 1 and 2 D. 1 and 3
17	Question Image	A. 9 B. 18 C. 27 D. 36
18	What is the circumference of a circle whose area is 100π ?	A. 10 B. 20 C. 10π D. 20π
19	What is the area of an equilateral triangle whose altitude is 6 ?	A. 18 B. 12√3 C. 18√3 D. 36
20	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