

## Quantitative Reasoning Geometry Test

Sr	Questions	Answers Choice
1	Question Image	A. 55 B. 70 C. 110 D. 125
2	Question Image	A. a B. 90-a C. 180-a/2 D. 180-a
3	An angle is $30^\circ$ more than one-half its complement. Find the angle.	A. $20^\circ$ B. $30^\circ$ C. $50^\circ$ D. $60^\circ$
4	If the radius of a circle is increased by 20% then the area is increased by	A. 44% B. 120% C. 144% D. 40%
5	A 4 cm cube is cut into 1 cm cubes. What is the percentage increase in the surface area after such cutting ?	A. 4% B. 300% C. 75% D. 400%
6	Question Image	A. 15 B. 30 C. 45 D. 72
7	Question Image	A. $41^\circ$ B. $65^\circ$ C. $115^\circ$ D. $106^\circ$
8	Question Image	A. b B. b-180 C. 90-b D. 180-b
9	Question Image	A. b-180 B. b-90 C. $180-a/2$ D. 180-a
10	Question Image	A. 50 m B. 64 m C. 72 m D. 84 m
11	Question Image	A. 780 B. 585 C. 1170 D. 540
12	Question Image	A. 40 B. 50 C. 120 D. 130
13	Question Image	A. 5 B. 10 C. 110 D. 125
14	Question Image	A. 20 B. 25 C. 40 D. 50
15	A rectangle is 16 cm long and 10 cm wide. If the length is reduced by k cm and its width is increased also by k cm so as to make it a square then its area changes by	A. 169 B. 256 C. 100 D. 9

E. None of the above

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Question Image

- A. 40
- B. 50
- C. 90
- D. 130

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Question Image

- A.  $a-180$
- B.  $2a-180$
- C.  $180-2a$
- D.  $180-b$

18

If the area of two circles are in the ratio 169 : 196 then ratio of their radii is

- A. 13 : 11
- B. 10 : 13
- C. 14 : 13
- D. 13 : 14

19

If the sum of the interior angles of a regular polygon measures up to 1440 degrees, how many sides does the polygon have ?

- A. 10 sides
- B. 8 sides
- C. 12 sides
- D. 9 sides

20

Question Image

- A. 30
- B. 39
- C. 80
- D. 78

21

Question Image

- A. 24
- B.  $12\sqrt{2}$
- C.  $16\sqrt{2}$
- D. 48

22

A rectangular lot 50 feet by 100 feet is surrounded on all sides by a concrete walk 5 feet wide. Find the number of square feet in the surface of the walk.

- A. 1600
- B. 5250
- C. 5500
- D. 6100

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Question Image

- A.  $4\pi$
- B.  $18\pi$
- C.  $28\pi$
- D.  $32\pi$