

Raid 4: Surface Area Showdown in the Shape Temple

1. A rectangular box has a length of 8 cm, a width of 5 cm, and a height of 3 cm. What is the surface area of the box?

A) 94 cm^2
B) 158 cm^2
C) 122 cm^2
D) 136 cm^2
2. A cylinder has a radius of 4 cm and a height of 10 cm. Use $\pi = 3.14$. What is the surface area of the cylinder?

A) 351.68 cm^2
B) 452.16 cm^2
C) 351.44 cm^2
D) 351.36 cm^2
3. A cone has a radius of 6 cm and a slant height of 10 cm. Use $\pi = 3.14$. What is the surface area of the cone?

A) 282.6 cm^2
B) 226.08 cm^2
C) 300.14 cm^2
D) 254.34 cm^2
4. A square pyramid has a base side length of 5 cm and a slant height of 7 cm. What is the surface area of the pyramid?

A) 125 cm^2
B) 110 cm^2
C) 100 cm^2
D) 105 cm^2
5. A sphere has a radius of 9 cm. Use $\pi = 3.14$. What is the surface area of the sphere?

A) 1017.36 cm^2
B) 1020 cm^2
C) 987.36 cm^2
D) 904.32 cm^2

6. A cylinder has a radius of 3 cm and height of 7 cm. Use $\pi = 3.14$. What is the surface area?
 - A) 188.4 cm^2
 - B) 195.3 cm^2
 - C) 200.96 cm^2
 - D) 185.22 cm^2
7. A rectangular prism has dimensions 6 cm, 4 cm, and 2 cm. What is its surface area?
 - A) 88 cm^2
 - B) 92 cm^2
 - C) 100 cm^2
 - D) 96 cm^2
8. A cone has a radius of 5 cm and slant height of 13 cm. Use $\pi = 3.14$. Find its surface area.
 - A) 282.6 cm^2
 - B) 282.5 cm^2
 - C) 282.7 cm^2
 - D) 283 cm^2
9. A pyramid has a square base of side 8 cm and slant height 6 cm. What is the surface area?
 - A) 160 cm^2
 - B) 180 cm^2
 - C) 192 cm^2
 - D) 200 cm^2
10. A sphere has radius 10 cm. Use $\pi = 3.14$. What is the surface area?
 - A) 1256 cm^2
 - B) 1256.64 cm^2
 - C) 1248 cm^2
 - D) 1250 cm^2
11. A cube has side length 5 cm. What is the surface area of the cube?
 - A) 125 cm^2
 - B) 150 cm^2
 - C) 100 cm^2
 - D) 75 cm^2



12. A cylinder has radius 2 cm and height 5 cm. Use $\pi = 3.14$. What is its surface area?
- A) 87.92 cm^2
 - B) 92.6 cm^2
 - C) 87.2 cm^2
 - D) 90 cm^2
13. A triangular prism has a base area of 30 cm^2 , perimeter of base 24 cm, and height 10 cm. What is the surface area?
- A) 240 cm^2
 - B) 300 cm^2
 - C) 340 cm^2
 - D) 360 cm^2
14. A cone has a base radius of 7 cm and slant height 10 cm. Use $\pi = 3.14$. What is the surface area?
- A) 373.36 cm^2
 - B) 382.2 cm^2
 - C) 376.6 cm^2
 - D) 377.3 cm^2
15. A rectangular box has dimensions 10 cm, 4 cm, and 3 cm. What is the surface area?
- A) 164 cm^2
 - B) 164.4 cm^2
 - C) 160 cm^2
 - D) 158 cm^2



Answer Key

1. D

2. A

3. A

4. D

5. A

6. A

7. D

8. A

9. C

10. A

11. B

12. A

13. D

14. C

15. A

