

## Solid figures - cones

**Determine the surface area of each cone.**

- 1) A cone with radius 5 ft and a slant height of 11.2 ft.
- 2) A cone with diameter 4 cm and a slant height of 4.5 cm.
- 3) A cone with diameter 20 cm and a slant height of 22.4 cm.
- 4) A cone with diameter 14 in and a slant height of 15.7 in.
- 5) A cone with diameter 12 km and a slant height of 13.4 km.
- 6) A cone with radius 4 mi and a slant height of 10.8 mi.

7) A cone with diameter 4 km and a slant height of 9.2 km.

8) A cone with diameter 16 yd and a slant height of 17.9 yd.

9) A cone with radius 3 m and a slant height of 8.5 m.

10) A cone with diameter 18 yd and a slant height of 20.1 yd.

11) A cone with radius 1 ft and a slant height of 5.1 ft.

12) A cone with diameter 4 m and a slant height of 8.2 m.

13) A cone with diameter 6 cm and a slant height of 7.6 cm.

14) A cone with diameter 4 in and a slant height of 6.3 in.

15) A cone with diameter 4 mi and a slant height of 7.3 mi.

16) A cone with radius 3 km and a slant height of 10.4 km.

17) A cone with diameter 6 yd and a slant height of 9.5 yd.

18) A cone with radius 1 km and a slant height of 7.1 km.

19) A cone with diameter 8 ft and a slant height of 9.8 ft.

20) A cone with diameter 2 m and a slant height of 9.1 m.

21) A cone with radius 3 in and a slant height of 6.7 in.

22) A cone with radius 1 m and a slant height of 6.1 m.

23) A cone with diameter 4 ft and a slant height of 5.4 ft.

24) A cone with radius 4 mi and a slant height of 8.9 mi.

25) A cone with radius 1 m and a slant height of 2.2 m.

26) A cone with radius 2 mi and a slant height of 10.2 mi.

27) A cone with diameter 2 yd and a slant height of 4.1 yd.

28) A cone with radius 1 in and a slant height of 10 in.

29) A cone with radius 1 yd and a slant height of 3.2 yd.

30) A cone with radius 1 mi and a slant height of 8.1 mi.

## Answers to Solid figures - cones

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|---------------------------|---------------------------|---------------------------|---------------------------|
| 1) 254.5 ft <sup>2</sup>  | 2) 40.8 cm <sup>2</sup>   | 3) 1017.9 cm <sup>2</sup> | 4) 499.2 in <sup>2</sup>  |
| 5) 365.7 km <sup>2</sup>  | 6) 186 mi <sup>2</sup>    | 7) 70.4 km <sup>2</sup>   | 8) 650.9 yd <sup>2</sup>  |
| 9) 108.4 m <sup>2</sup>   | 10) 822.8 yd <sup>2</sup> | 11) 19.2 ft <sup>2</sup>  | 12) 64.1 m <sup>2</sup>   |
| 13) 99.9 cm <sup>2</sup>  | 14) 52.2 in <sup>2</sup>  | 15) 58.4 mi <sup>2</sup>  | 16) 126.3 km <sup>2</sup> |
| 17) 117.8 yd <sup>2</sup> | 18) 25.4 km <sup>2</sup>  | 19) 173.4 ft <sup>2</sup> | 20) 31.7 m <sup>2</sup>   |
| 21) 91.4 in <sup>2</sup>  | 22) 22.3 m <sup>2</sup>   | 23) 46.5 ft <sup>2</sup>  | 24) 162.1 mi <sup>2</sup> |
| 25) 10.1 m <sup>2</sup>   | 26) 76.7 mi <sup>2</sup>  | 27) 16 yd <sup>2</sup>    | 28) 34.6 in <sup>2</sup>  |
| 29) 13.2 yd <sup>2</sup>  | 30) 28.6 mi <sup>2</sup>  |                           |                           |