

## Solid figures - complete

**Calculate the surface area for each of the figures, using the information from the descriptions.**

- 1) A sphere with a diameter of 11 in.
- 2) A sphere with a diameter of 14 mi.
- 3) A rectangular prism measuring 8 in and 4 in along the base and 6 in tall.
- 4) A square pyramid measuring 4 cm along the base with a slant height of 8.2 cm.
- 5) A cylinder with a diameter of 4 in and a height of 4 in.
- 6) A cone with diameter 14 mi and a slant height of 15.7 mi.

7) A sphere with a diameter of 20 yd.

8) A cone with diameter 2 km and a slant height of 8.1 km.

9) A square pyramid measuring 9 km along the base with a slant height of 9.2 km.

10) A rectangular prism measuring 5 yd and 8 yd along the base and 5 yd tall.

11) A square pyramid measuring 5 m along the base with a slant height of 10.3 m.

12) A sphere with a radius of 8 m.

13) A square pyramid measuring 9 ft along the base with a slant height of 8.3 ft.

14) A square pyramid measuring 7 cm along the base with a slant height of 9.7 cm.

15) A square prism measuring 5 ft along each edge of the base and 7 ft tall.

16) A square pyramid measuring 10 in along the base with a slant height of 10.3 in.

17) A square pyramid measuring 6 mi along the base with a slant height of 6.7 mi.

18) A sphere with a radius of 4 in.

19) A square prism measuring 3 in along each edge of the base and 4 in tall.

20) A cone with radius 1 km and a slant height of 3.2 km.

21) A cylinder with a radius of 3 km and a height of 2 km.

22) A square prism measuring 5 yd along each edge of the base and 8 yd tall.

23) A cylinder with a diameter of 6 m and a height of 6 m.

24) A sphere with a diameter of 15 ft.

25) A square pyramid measuring 10 yd along the base with a slant height of 8.6 yd.

26) A sphere with a diameter of 10 ft.

27) A rectangular prism measuring 9 m and 8 m along the base and 2 m tall.

28) A cone with radius 9 in and a slant height of 20.1 in.

29) A cone with radius 3 cm and a slant height of 6.7 cm.

30) A rectangular prism measuring 6 cm and 10 cm along the base and 9 cm tall.

## Answers to Solid figures - complete

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|---------------------------|---------------------------|---------------------------|---------------------------|
| 1) 380.1 in <sup>2</sup>  | 2) 615.8 mi <sup>2</sup>  | 3) 208 in <sup>2</sup>    | 4) 81.6 cm <sup>2</sup>   |
| 5) 75.4 in <sup>2</sup>   | 6) 499.2 mi <sup>2</sup>  | 7) 1256.6 yd <sup>2</sup> | 8) 28.6 km <sup>2</sup>   |
| 9) 246.6 km <sup>2</sup>  | 10) 210 yd <sup>2</sup>   | 11) 128 m <sup>2</sup>    | 12) 804.2 m <sup>2</sup>  |
| 13) 230.4 ft <sup>2</sup> | 14) 184.8 cm <sup>2</sup> | 15) 190 ft <sup>2</sup>   | 16) 306 in <sup>2</sup>   |
| 17) 116.4 mi <sup>2</sup> | 18) 201.1 in <sup>2</sup> | 19) 66 in <sup>2</sup>    | 20) 13.2 km <sup>2</sup>  |
| 21) 94.2 km <sup>2</sup>  | 22) 210 yd <sup>2</sup>   | 23) 169.6 m <sup>2</sup>  | 24) 706.9 ft <sup>2</sup> |
| 25) 272 yd <sup>2</sup>   | 26) 314.2 ft <sup>2</sup> | 27) 212 m <sup>2</sup>    | 28) 822.8 in <sup>2</sup> |
| 29) 91.4 cm <sup>2</sup>  | 30) 408 cm <sup>2</sup>   |                           |                           |