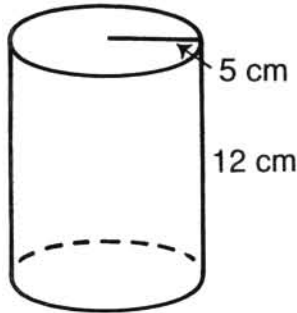


# Why Did Humpty Dumpty Have a Great Fall?

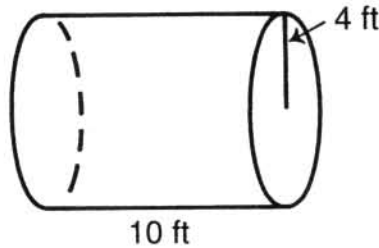
Do each exercise and find your answer in the answer column. Write the letter of the answer in each box containing the number of the exercise. Use 3.14 for  $\pi$ .

I. Find the lateral area and the total surface area of each cylinder.



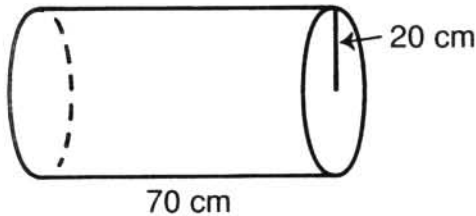
① lateral area: \_\_\_\_\_

② total area: \_\_\_\_\_



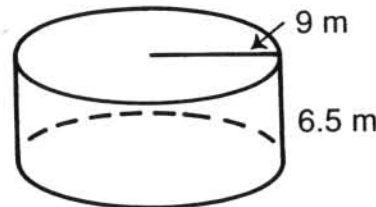
③ lateral area: \_\_\_\_\_

④ total area: \_\_\_\_\_



⑤ lateral area: \_\_\_\_\_

⑥ total area: \_\_\_\_\_



⑦ lateral area: \_\_\_\_\_

⑧ total area: \_\_\_\_\_

II. Find the total surface area of each cylinder.

⑨  $r = 3$  cm  
 $h = 10$  cm

⑩  $r = 8$  in.  
 $h = 8$  in.

⑪  $d = 10.8$  m  
 $h = 2.6$  m

III. Solve.

⑫ A can of tomato juice is a cylinder with a radius of 7.5 cm and a height of 20 cm. What is the area of the label around the can?

⑬ A steel oil tank is a cylinder with a diameter of 12 ft and a height of 18 ft. How many square feet of steel were needed to make the tank?

- Ⓐ 271.296 m<sup>2</sup>
- Ⓑ 942 cm<sup>2</sup>
- Ⓒ 815.18 ft<sup>2</sup>
- Ⓓ 376.8 cm<sup>2</sup>
- Ⓔ 244.92 cm<sup>2</sup>
- Ⓕ 367.38 m<sup>2</sup>
- Ⓖ 8,792 cm<sup>2</sup>
- Ⓗ 792.16 m<sup>2</sup>
- Ⓘ 311.046 m<sup>2</sup>
- Ⓚ 11,304 cm<sup>2</sup>
- Ⓛ 861.6 cm<sup>2</sup>
- Ⓜ 904.32 ft<sup>2</sup>
- Ⓝ 85.18 ft<sup>2</sup>
- Ⓟ 533.8 cm<sup>2</sup>
- Ⓡ 803.84 in.<sup>2</sup>
- Ⓢ 351.68 ft<sup>2</sup>
- Ⓣ 251.2 ft<sup>2</sup>
- Ⓤ 775.14 in.<sup>2</sup>
- Ⓡ 412.18 ft<sup>2</sup>
- Ⓢ 876.06 m<sup>2</sup>
- Ⓡ 12,412 cm<sup>2</sup>
- Ⓡ 876.06 m<sup>2</sup>
- Ⓡ 12,412 cm<sup>2</sup>
- Ⓡ 8,792 cm<sup>2</sup>
- Ⓡ 311.046 m<sup>2</sup>

3	8	13	11	6	4	2	9	5	8	10	11	12	11	1	7	2	13	13	4	10
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What is a Circle Like the Fabric Used to Make It?

Do each exercise and find your answer in the answer column. Write the letter of the answer in each box containing the number of the exercise. Use 3.14 for  $\pi$ .

1	2	3	4	5	6
7	8	9	10	11	12

- Find the lateral area of a cylinder with a radius of 3 cm and a height of 10 cm.
- Find the total surface area of a cylinder with a radius of 4 cm and a height of 12 cm.
- Find the lateral area of a cylinder with a diameter of 10 cm and a height of 8 cm.
- Find the total surface area of a cylinder with a radius of 5 cm and a height of 15 cm.
- Find the lateral area of a cylinder with a diameter of 12 cm and a height of 10 cm.
- Find the total surface area of a cylinder with a radius of 6 cm and a height of 12 cm.

- Find the lateral area of a cone with a radius of 4 cm and a height of 3 cm.
- Find the total surface area of a cone with a radius of 5 cm and a height of 4 cm.
- Find the lateral area of a cone with a diameter of 10 cm and a height of 8 cm.
- Find the total surface area of a cone with a radius of 6 cm and a height of 8 cm.
- Find the lateral area of a cone with a diameter of 12 cm and a height of 10 cm.
- Find the total surface area of a cone with a radius of 7 cm and a height of 12 cm.

What is Cold And Comes In Cans?

Do each exercise and find your answer in the answer column. Write the letter of the answer in each box containing the number of the exercise. Use 3.14 for  $\pi$ .

- Find the lateral area and the total surface area of each cylinder.
- Find the total surface area of each cylinder.
- Solve.

**ANSWERS**

1. 376.8 cm<sup>2</sup>   2. 533.8 cm<sup>2</sup>   3. 251.2 ft<sup>2</sup>   4. 351.68 ft<sup>2</sup>

5. 8,792 cm<sup>2</sup>   6. 11,304 cm<sup>2</sup>   7. 367.38 m<sup>2</sup>   8. 876.06 m<sup>2</sup>

9. 244.92 cm<sup>2</sup>   10. 803.84 in.<sup>2</sup>   11. 271.296 m<sup>2</sup>

12. 942 cm<sup>2</sup>   13. 904.32 ft<sup>2</sup>

What Happened to Zaida After the Treatment?

Do each exercise and find your answer in the answer column. Write the letter of the answer in each box containing the number of the exercise. Use 3.14 for  $\pi$ .

- Find the lateral area and the total surface area of each cylinder.
- Find the total surface area of each cylinder.

- Solve.

**ANSWERS**

1. 412.18 ft<sup>2</sup>   2. 803.84 in.<sup>2</sup>   3. 792.16 m<sup>2</sup>   4. 251.2 ft<sup>2</sup>

5. 904.32 ft<sup>2</sup>   6. 861.6 cm<sup>2</sup>   7. 367.38 m<sup>2</sup>   8. 376.8 cm<sup>2</sup>

9. 244.92 cm<sup>2</sup>   10. 815.18 ft<sup>2</sup>   11. 11,304 cm<sup>2</sup>   12. 942 cm<sup>2</sup>

13. 351.68 ft<sup>2</sup>   14. 775.14 in.<sup>2</sup>   15. 533.8 cm<sup>2</sup>   16. 271.296 m<sup>2</sup>

17. 876.06 m<sup>2</sup>   18. 12,412 cm<sup>2</sup>   19. 8,792 cm<sup>2</sup>   20. 311.046 m<sup>2</sup>

Why Did Humpty Dumpty Have a Great Fall?

Do each exercise and find your answer in the answer column. Write the letter of the answer in each box containing the number of the exercise. Use 3.14 for  $\pi$ .

- Find the lateral area and the total surface area of each cylinder.
- Find the total surface area of each cylinder.
- Solve.

**ANSWERS**

1. 376.8 cm<sup>2</sup>   2. 533.8 cm<sup>2</sup>   3. 251.2 ft<sup>2</sup>   4. 351.68 ft<sup>2</sup>

5. 8,792 cm<sup>2</sup>   6. 11,304 cm<sup>2</sup>   7. 367.38 m<sup>2</sup>   8. 876.06 m<sup>2</sup>

9. 244.92 cm<sup>2</sup>   10. 803.84 in.<sup>2</sup>   11. 271.296 m<sup>2</sup>

12. 942 cm<sup>2</sup>   13. 904.32 ft<sup>2</sup>