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Surface Area of a Cylinder

$SA = 2\pi r^2 + 2\pi rh$
 $SA = 2\pi r(r + h)$

1. Find the surface area of the cylinder with radius 4 cm and height 10 cm.

2. Find the surface area of the cylinder with radius 3 cm and height 8 cm.

3. Find the surface area of the cylinder with radius 5 cm and height 12 cm.

1.

2.

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4.

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Volume and Surface Area of Cylinders (B)

Instructions: Find the volume and surface area for each cylinder.

1)

2)

3)

4)

5)

6)

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Practice 11-2 Surface Areas of Prisms and Cylinders

Find the lateral area of each cylinder to the nearest tenth.

1.

2.

3.

4.

5.

6.

Find (a) the lateral area and (b) the surface area of each prism. Round your answers to the nearest whole number.

7.

8.

9.

10.

11.

12.

Find the surface area of each cylinder in terms of π .

13.

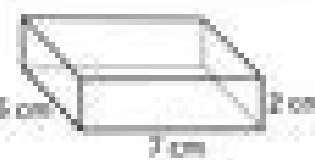
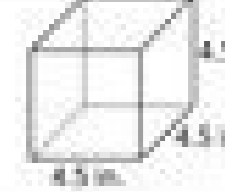
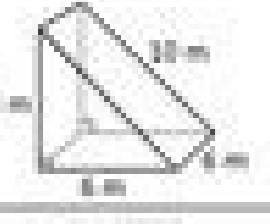
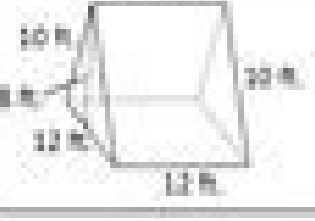
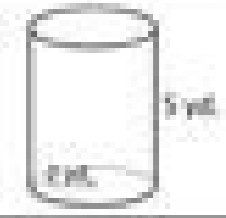
14.

15.

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Surface Area and Volume Cut and Paste

Find the surface area and volume of each figure, showing all your work in the "Show Work" column. When you get your answers, find it in the answer choices at the bottom of the page, cut it out, and glue it in the appropriate place. All answers will be used. Use 3.14 for π . **Show all your work!**

| Figure | Show Work | Surface Area | Volume |
|--|-----------|--------------|--------|
|  | | 118 | 70 |
|  | | 121.5 | 91.125 |
|  | | 192 | 144 |
|  | | 480 | 576 |
|  | | 87.92 | 62.8 |

| | | | | |
|-------|--------|-----|-------|------|
| 480 | 91.125 | 70 | 87.92 | 192 |
| 121.5 | 144 | 118 | 576 | 62.8 |

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Lateral and total surface area of cylinder worksheet.

Related Pages Surface Area Formulas Surface Area of Prisms Surface Area of a Sphere More Geometry Lessons Surface Area of a Solid Cylinder A cylinder is a solid that has two parallel faces which are congruent circles. Example: Find the surface area of a cylinder with $r = 18$ in, $h = 17$ in. Show Video Lesson How to calculate the surface area of a cylinder in terms of π ? Excelling learners will be able to solve unfamiliar problems using their knowledge of calculating the surface area of a cylinder. Show Video Lesson Try the free Mathway calculator and problem solver below to practice various math topics. Find the surface area of a cylinder without the lid. Differentiated objectives: Developing learners will calculate the surface area of a cylinder. Thank you so much for all you do! Thank you! I hope it helps! 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Enable lower Full Lesson (5.3.2f) on the cylinder surface. Thank you for doing this for us. Thank you. Main: an introductory demonstration of a cylinder network. The worksheets calculate the volume of cylinders by calculating the surface area of the volume of cylinders and the surface area of the cylinder surface of cylinders and tubes Example: the diameter of the base of the cylinder is 12 cm and the height of the cylinder is 8 cm. your relationship and will contact. Total hollow cylinder surface = area of curved inner surface + area of outer curved surface + area of two rings Example: a section of a metal tube is shown in the figure. Take a look at the new resources of free bundles, containing collections of lessons on specific topics! You can also find free full lessons that are ready to take and go! Last Updated June 5, 2019 TWO Full lessons on finding the surface of a cylinder. The height of the cylinder is the perpendicular distance between the two bases. 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Please submit your feedback or enquiries via our Feedback page. Solution: $r = 2$, $R = 2.4$, $h = 10$ Total surface area of pipe = area of internal surface + area of external surface + area of the two rings = $2\pi r h + 2\pi R h + 2(\pi R^2 - \pi r^2) = (2\pi(2.4^2 - 2^2) + 2\pi(2.4)(10) + 2\pi(2)(10)) = 40\pi + 48\pi + 3.52\pi = 91.52\pi = 91.52 \times 3.142 = 287.56 \text{ cm}^2$ How many square feet of metal are used to make the can? can?

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