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Shape	Volume Formula	Surface Area Formula
Cube	side \times side \times height of the cube $V = s^3$	side \times height of the cube $SA = 6s^2$
Cylinder	radius \times radius \times pi \times height $V = \pi r^2 h$	radius \times height of the cylinder $SA = 2\pi r^2 + 2\pi rh$
Rectangular Prism	length \times width \times height $V = lwh$	length \times width of the prism $SA = 2lw + 2lh + 2wh$
Triangular Prism	base \times height of the prism $V = \frac{1}{2}bh \times l$	base \times height of the prism $SA = bh + (sl_1 + sl_2 + sl_3)$
Pyramid	radius \times radius of the base \times pi \times height $V = \frac{1}{3}\pi r^2 h$	radius \times height of the pyramid $SA = \pi r^2 + \pi rl$
Rectangular Pyramid	length \times width of the base \times height $V = \frac{1}{3}lwh$	length \times width of the base $SA = lw + (sl_1 + sl_2 + sl_3 + sl_4)$

Name _____ Date _____

Surface Area
Triangular Prism

Example

$SA = ab + (s_1 + s_2 + s_3)l$
 $SA = 3 \times 4 + (3 + 4 + 5) \times 6$
 $SA = 12 + (12) \times 6$
 $SA = 12 + 72$
 $SA = 84 \text{ in}^2$

Parts of the Equation

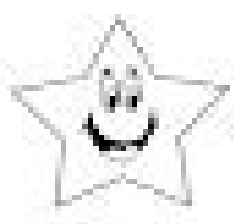
- a = shortest leg of the right-angled triangle
- b = longest leg of the right-angled triangle
- s_1, s_2, s_3 = length of each of the three sides of the triangle
- l = length of the prism

1)

2)

3)

4)



Name: _____

Calculate the Surface Area

1.

2.

3.

4.

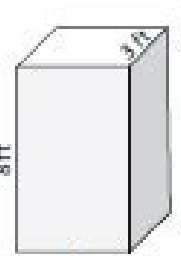
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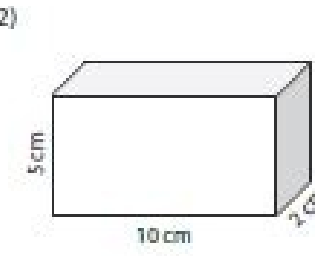
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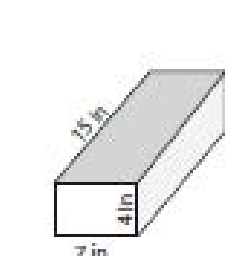
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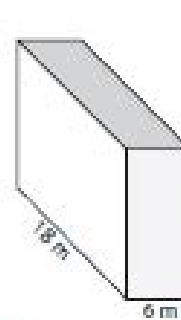
Volume - Rectangular Prism

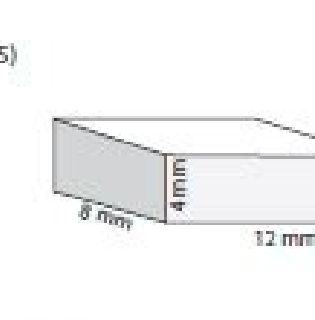
Find the volume of each rectangular prism.

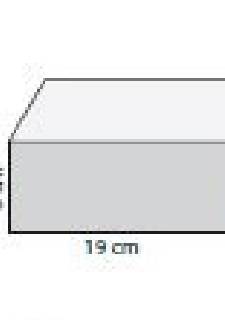
1)  Volume = _____

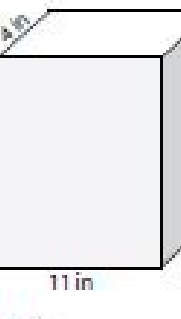
2)  Volume = _____

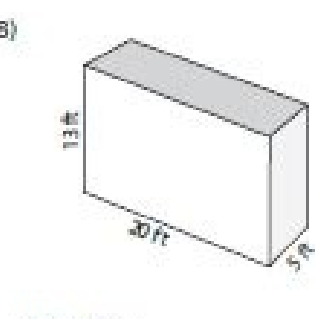
3)  Volume = _____

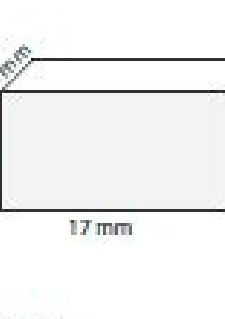
4)  Volume = _____

5)  Volume = _____

6)  Volume = _____

7)  Volume = _____

8)  Volume = _____

9)  Volume = _____

10) A bath tub in the shape of a rectangular prism is 20 meter long, 10 meter wide and 5 meter deep. How much water can it hold?

Volume = _____

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Worksheet surface area triangular prism. Surface area of triangular prism worksheet with answers.

In order to work out the surface area of a triangular prism: Work out the area of each face. Add the five areas together. Include the units. Total surface area: $28.5 + 28.5 + 84 + 140 + 140 = 421$ The measurements on the triangular prism are in mm therefore the total surface area of the triangular prism = 421mm^2 . A packaging box is made in the following shape. The material used to make the box costs 0.15p per cm^2 to produce. Total surface area: $56 + 56 + 200 + 350 + 402.5 = 1064.5$ The measurements we have used are in mm therefore the total surface area of the triangular prism = 1064.5mm^2 . To work this out we can use the Pythagorean Theorem $a^2 + b^2 = c^2$. Work out the area of each face. Face Area Top $\frac{1}{2} \times 6 \times 8 = 24$ Bottom 24 Front $9 \times 10 = 90$ Left side $9 \times 6 = 54$ Right side $9 \times 8 = 72$ Add the five areas together. Total surface area: $210 + 210 + 1400 + 480 + 1480 = 3780$ The measurements on the triangular prism are in m therefore the total surface area of the triangular prism = 3780m^2 . Some of the measurements here are in cm and some are in mm. The area of the triangle at the front is $\frac{1}{2} \times 12 \times 5 = 30\text{cm}^2$. The back face is the same as the front face so the area of the back is also 30cm^2 . Show how you decide. Work out the surface area of the triangular prism. (3 marks) $\frac{1}{2} \times 12 \times 5 = 30$ $\times 2 = 60$ $+ 12 \times 10 = 120$ $+ 12 \times 9 = 108$ $+ 12 \times 8 = 96$ $+ 12 \times 9 = 108$ $= 420\text{cm}^2$

The area of the top is $9 \times 13 = 117\text{cm}^2$. It will make our working clearer if we use a table: Face Area Front $\frac{1}{2} \times 12 \times 12 = 72$ Back 72 Bottom $9 \times 12 = 108$ Left side $9 \times 5 = 45$ Top $9 \times 13 = 117$ Add the five areas together. $72 + 72 + 108 + 45 + 117 = 414$ Add the five areas together. $0.5\text{m} = 50\text{cm}$ and $0.8\text{m} = 80\text{cm}$. (5 marks) Prism A. Surface area = $24 + 24 + 90 + 120 + 150 = 408$ cm^2 . Prism B. Surface area = $25 + 25 + 140 + 70 + 156.8 = 416.8$ cm^2 . They should use shape A (1) 3. For a triangular prism the top and the base are triangles and the lateral faces are rectangular sides. Next, Work out the surface area of each face: Face Area Front $\frac{1}{2} \times 60 \times 40 = 1200$ Back 1200 Bottom $80 \times 60 = 4800$ Left side $80 \times 50 = 4000$ Right side $80 \times 50 = 4000$ Total surface area = $1200 + 1200 + 4800 + 4000 + 4000 = 15200\text{mm}^2$. In this question, we are missing the height of the triangle. COMING SOON x Get your free Surface area of a triangular prism worksheet of 20+ questions and answers. Work out the area of each face. Find out more about our GCSE maths revision programme. Total surface area: $60 + 60 + 72 + 135 + 153 = 480$ The measurements we have used are in cm therefore the total surface area of the triangular prism = 480cm^2 . Weekly online one to one GCSE maths revision lessons delivered by expert maths tutors. Face Area Front $\frac{1}{2} \times 35 \times 12 = 210$ Back 210 Bottom $40 \times 35 = 1400$ Left side $40 \times 12 = 480$ Top $40 \times 37 = 1480$ Add the five areas together. Get your free Surface area of a triangular prism worksheet of 20+ questions and answers. Here we will learn about the surface area of a triangular prism and how to calculate it. COMING SOON Work out the surface area of the triangular prism Work out the area of each face. Give your answer in mm^2 . $\sqrt{8^2 + 15^2} = c^2$ $\sqrt{289} = c$ $c = 17$ Face Area Front $\frac{1}{2} \times 8 \times 15 = 60$ Back 60 Bottom $9 \times 8 = 72$ Left side $9 \times 15 = 135$ Right side $9 \times 17 = 153$ Add the five areas together. We use essential and non-essential cookies to improve the experience on our website. We are told the base and height of the triangle and the length of the prism but we don't have the length of the hypotenuse of the triangle. Since we are asked to give the answer in square centimetres, we need to convert all the measurements to cm. Work out the surface area of the triangular prism Work out the area of each face. Give your answer in pounds. A packaging company wants to minimise the amount of packaging they use. Give your answer in cm^2 . Thinking all of the rectangles have the same area. Usually all of the rectangles have different areas (unless the triangle is isosceles or equilateral). We can work out the surface area in exactly the same way, we just add the labels we give to each face in our table. How much would it cost to make 100 boxes? Face Area Front $\frac{1}{2} \times 8 \times 14 = 56$ Back 56 Bottom $25 \times 8 = 200$ Left side $25 \times 14 = 350$ Right side $25 \times 16 = 400$ Add the five areas together. Since it is a right angled triangle, we can use Pythagoras' theorem to work out the height: $a^2 + b^2 = c^2$ $12^2 + 12^2 = 13^2$ $144 + 144 = 169$ $169 = 13^2$ $13 = 13$ Next, work out the surface area of each face: Face Area Front $\frac{1}{2} \times 12 \times 5 = 30$ Back 30 Bottom $20 \times 12 = 240$ Top $20 \times 13 = 260$ Left side $20 \times 5 = 100$ Total surface area = $12 + 12 + 88 + 55 + 55 = 222$ cm^2 . The triangular faces of a triangular prism are congruent (exactly the same) but, unless the triangle is isosceles or equilateral, the rectangles are all different. The measurements on the triangular prism are in cm therefore the total surface area of the triangular prism = 330cm^2 . (5 marks) Surface area = $12 + 12 + 88 + 55 + 55 = 222$ cm^2 . (1) $222 \times 0.15 = 33.3$ (1) $33.3 \times 100 = 3330$ p (1) $3330\text{p} = \text{£}33.30$ (1) You have now learned how to: Calculate the surface area of a triangular prism Use the properties of faces, surfaces, edges and vertices of cubes and cuboids to solve problems in 3-D Volume of a cuboid Surface area of a cuboid Volume of a prism Trigonometry Prepare your KS4 students for maths GCSEs success with Third Space Learning. Other lessons in this series include: Triangular prism Volume of a triangular prism Practice surface area of a triangular prism questions Work out the surface area of each face: Face Area Front $\frac{1}{2} \times 8 \times 15 = 60$ Back 60 Bottom $20 \times 8 = 160$ Left side $20 \times 15 = 300$ Right side $20 \times 17 = 340$ Total surface area = $60 + 60 + 160 + 300 + 340 = 920\text{cm}^2$. Work out the surface area of each face: Face Area Front $\frac{1}{2} \times 12 \times 8 = 48$ Back 48 Bottom $15 \times 12 = 180$ Left side $15 \times 10 = 150$ Right side $15 \times 10 = 150$ Total surface area = $48 + 48 + 180 + 150 + 150 = 576\text{cm}^2$. Work out the surface area of each face: Face Area Front $\frac{1}{2} \times 3 \times 4 = 6$ Back 6 Top $6 \times 3 = 18$ Left side $6 \times 4 = 24$ Right side $6 \times 5 = 30$ Total surface area = $6 + 6 + 18 + 24 + 30 = 84\text{cm}^2$. Work out the surface area of each face: Face Area Front $\frac{1}{2} \times 2.6 \times 4.9 = 6.37$ Back 6.37 Bottom $1.1 \times 2.6 = 2.86$ Left side $1.1 \times 4.9 = 5.39$ Right side $1.1 \times 5.5 = 6.05$ Total surface area = $6.37 + 6.37 + 2.86 + 5.39 + 6.05 = 27.04\text{cm}^2$. Notice that some of the measurements are in m and some are in cm. Work out the surface area of the triangular prism Work out the area of each face. Lateral faces are all of the faces of an object excluding the top and the base. We are told the height of the prism is 9cm. Total surface area: $24 + 24 + 90 + 54 + 72 = 264$ The measurements on the triangular prism are in cm therefore the total surface area of the triangular prism = 264cm^2 . Face Area Front $\frac{1}{2} \times 6 \times 9.5 = 28.5$ Back 28.5 Bottom $6 \times 14 = 84$ Left side $10 \times 14 = 140$ Right side $10 \times 14 = 140$ Add the five areas together. To find surface area, work out the area of each face and add them together. 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Surface Area of a Triangular Prism. Here we will learn about the surface area of a triangular prism and how to calculate it. There are also volume and surface area of a triangular prism worksheets based on Edexcel, AQA and OCR exam questions, along with further guidance on where to go next if you're still stuck. Using nets to calculate the surface area of solids: cube, rectangular prism or cuboid, triangular prism, hexagonal prism, cylinder, pyramids and cones, examples and step by step solutions. How to find the surface area and volume of a right circular cone. How to find the surface area of a hexagonal prism How to Calculate Surface Area. Here we will learn how to calculate the surface area of a variety of three-dimensional shapes, including cuboids, prisms, cylinders, cones and spheres. There are also surface area worksheets based on Edexcel, AQA and OCR exam questions, along with further guidance on where to go next if you're still stuck. The word "lateral" means "belonging to the side". The lateral area for a triangular prism is the sum of areas of its side faces (which are 3 rectangles). i.e., it is the total surface area minus the areas of the two bases. It is also known as the lateral surface area (LSA). For its calculation, two dimensions are involved, thus we measure it in square units. 7.9 (D) Solve problems involving the lateral and total surface area of a rectangular prism, rectangular pyramid, triangular prism, and triangular pyramid by determining the area of the shape's net. Exploring Area and Surface Area Area is the amount of surface a shape covers. Surface Area of a Rectangular Prism Worksheets, Geometry Worksheets for 4th grade, 5th grade and middle school. Toggle navigation. Pre-K; Kindergarten; 1st Grade; 2nd Grade; ... To link to this Surface Area of a Rectangular Prism Worksheets page, copy the following code to your site: Special Right Triangles: 45-45-90, 30-60-90, 3-4-5 Special Right Triangles: 45-45-90, 30-60-90, ... Surface Area of Triangular Prism Surface Area of Cylinder 1 Surface Area of Cylinder 2 Surface Area of Cone ... Volume And Surface Area Worksheets. Surface Area and Volume of Cube A rectangular prism is a three-dimensional shape, having six faces, where all the faces (top, bottom, and lateral faces) of the prism are rectangles such that all the pairs of the opposite faces are identical. Learn the volume and surface area formulas of a rectangular prism along with a few solved examples and practice questions. Here are some more worksheets about volume and surface area (in html format). Find the volume of a prism when its dimensions are given or edge length of a cube when its volume is given (grade 5; easy); Find the volume or surface area of rectangular prisms (includes decimal numbers; grades 5-6); Find the volume of a rectangular prism with fractional edge lengths (halves, thirds, ...

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