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Surface area of triangular prism worksheets with answers answer sheet answers

Includes reasoning and applied questions. Calculating volume instead of surface area Volume and surface area are different things - volume tells us the space within the shape whereas surface area is the total area of the faces. The surface area of a triangular prism is the total area of all of the faces. To work out the surface area of a triangular prism, we need to work out the area of each face and add them all together. Please read our Cookies Policy for information on how we use cookies and how to manage or change your cookie settings. Accept Privacy & Cookies Policy To find surface area, work out the area of each face and add them together. A packaging company wants to minimise the amount of packaging they use. E.g. Since it is an area, surface area is measured in square units (e.g. mm², cm², m² etc). 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 = 264cm². Total surface area: 30 + 30 + 108 + 45 + 117 = 330 Include the units. (5 marks) Surface area = 12+12+88+55+55 (1) \text{Surface area }=222 \text{m}^2 (1) 222 \times 0.15 = 33.3 (1) 33.3 \times 100 = 3330 \text{p} (1) 3330p = \pounds 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. COMING SOON Work out the surface area of the triangular prism Work out the area of each face. Thinking all of the rectangles have the same area Usually all of the rectangle have different areas (unless the triangle is isosceles or equilateral). We use essential and non-essential cookies to improve the experience on our website. Work out the area of each face. 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. 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. Weekly online one to one GCSE maths revision lessons delivered by expert maths tutors. To work this out we can use the Pythagorean Theorem $a^2 + b^2 = c^2$. The measurements on the triangular prism are in cm therefore the total surface area of the triangular prism = 330cm². You may find it helpful to start with the main triangular prism lesson for a summary of what to expect, or use the step by step guides below for further detail on individual topics. Give your answer in pounds. (5 marks) Prism A: Surface area = 24+24+90+120+150 (1) \text{Surface area }=408 \text{m}^2 (1) Prism B: Surface area = 25+25+140+70+156.8 (1) \text{Surface area }=416.8 \text{m}^2 (1) They should use shape A (1) 3. COMING SOON x Get your free Surface area of a triangular prism worksheet of 20+ questions and answers. When calculating the surface area we need the length of each side of the triangle. Since it is a right angled triangle, we can use Pythagoras' theorem to work out the height. \begin{aligned} a^2 + b^2 &= c^2 \\ h^2 + 12^2 &= 13^2 \\ h^2 + 144 &= 169 \\ h^2 &= 169 - 144 \\ h^2 &= 25 \\ h &= 5 \end{aligned} 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 $20 \times 5 = 100$ \text{Total surface area }=30+30+240+260+100=660 \text{m}^2 Surface area of a triangular prism GCSE questions 1. (3 marks) \frac{1}{2} \times 0.3 \times 0.4 = 0.06 (1) 1 \times 0.3 = 0.1, -1 \times 0.4 = -0.4, -1 \times 0.5 = 0.5 (1) 0.06+0.06+0.3+0.3+0.5=1.32 \text{m}^2 (1) 2. 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 $80 \times 50 = 4000$ \text{Total surface area }=1200+1200+4800+4000+4000=15200 \text{m}^2 In this question, we are missing the height of the triangle. How much would it cost to make 100 boxes? Find out more about our GCSE maths revision programme. Work out the surface area of the triangular prism Work out the area of each face. 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 = 1064.5mm². Which of these shapes should they choose to make their packaging? Give your answer in cm². Work out the surface area of the triangular prism. Give your answer in mm². Get your free Surface area of a triangular prism worksheet of 20+ questions and answers. Work out the area of each face. This prism has a triangular base and rectangular sides. We can work out the surface area in exactly the same way, we just adjust the labels we give to each face in our table. 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. 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 = 3780m². 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 = 480cm². 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 $20 \times 17 = 340$ \text{Total surface area }=60+60+160+300+340=920 \text{m}^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 $15 \times 10 = 150$ \text{Total surface area }=48+48+180+150+150=576 \text{m}^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 $6 \times 5 = 30$ \text{Total surface area }=6+6+18+24+30=84 \text{m}^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 $1.1 \times 5.5 = 6.05$ \text{Total surface area }=6.37+6.37+2.86+5.39+6.05=27.04 \text{m}^2 Notice that some of the measurements are in m and some are in cm. \sqrt{8^2 + 15^2} = c^2 \sqrt{289} = c \sqrt{17} = c \text{Face Area Front } \frac{1}{2} \times 8 \times 15 = 60 \text{Back } 60 \text{Bottom } 9 \times 8 = 72 \text{Left side } 9 \times 15 = 135 \text{Right side } 9 \times 17 = 153 \text{Add the five areas together. Surface Area of Triangular Prisms | Integers Make an all-out effort and keep 6th grade and 7th grade students au fait with finding the surface area of triangular prisms! Sum up the areas of three rectangular faces and two triangular bases to arrive at the surface area. Face Area Front } \frac{1}{2} \times 35 \times 12 = 210 \text{Back } 210 \text{Bottom } 40 \times 35 = 1400 \text{Left side } 40 \times 12 = 480 \text{Top } 40 \times 37 = 1480 \text{Add the five areas together. Show how you decide. Since we have been asked for the answer in mm}^2, we need to convert all measurements to mm : 1.4cm = 14mm and 2.5cm=25mm. The area of the base is 9 \times 12 = 108 \text{cm}^2 The area of the left side is 9 \times 5 = 45 \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 \times 5 = 30 \text{Back } 30 \text{Bottom } 9 \times 12 = 108 \text{Left side } 9 \times 5 = 45 \text{Top } 9 \times 13 = 117 \text{Add the five areas together. Work out the surface area of the triangular prism Work out the area of each face. Using the wrong measurements to work out the area of the triangle faces In surface area questions, we need to know all three side lengths of the triangle however we only need the base and the height to calculate the area of the triangle Surface area of a triangular prism is part of our series of lessons to support revision on triangular prism. A packaging box is made in the following shape The material used to make the box costs 0.15p per \text{m}^2 to produce. Here we will learn about the surface area of a triangular prism and how to calculate it. Face Area Front } \frac{1}{2} \times 6 \times 9.5 = 28.5 \text{Back } 28.5 \text{Bottom } 6 \times 14 = 84 \text{Left side } 10 \times 14 = 140 \text{Right side } 10 \times 14 = 140 \text{Add the five areas together. The lateral surface area of a triangular prism is the total area of the rectangular sides 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. Some of the measurements here are in cm and some are in mm. 0.5m = 50cm and 0.8m=80cm . Surface Area of Triangular Prisms | Decimals Plug the decimal dimensions in SA = bh + (s1 + s2 + s3)H, where 'b' and 'h' are the base length and height of the triangle; 's1', 's2', and 's3' are the lengths of three sides of the triangle; 'H' the prism's height, and find the surface area. Work out the surface area of the triangular prism. 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 . 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 . For a triangular prism the top and the base are triangles and the lateral faces are rectangular sides. Face Area Front } \frac{1}{2} \times 8 \times 14 = 56 \text{Back } 56 \text{Bottom } 25 \times 8 = 200 \text{Left side } 25 \times 14 = 350 \text{Right side } 25 \times 16.1 = 402.5 \text{Add the five areas together. Since we are asked to give the answer in square centimetres, we need to convert all the measurements to cm . Face Area Top } \frac{1}{2} \times 6 \times 8 = 24 \text{Bottom } 24 \text{Front } 9 \times 10 = 90 \text{Left side } 9 \times 6 = 54 \text{Right side } 9 \times 8 = 72 \text{Add the five areas together. 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 } 30 \text{cm}^2 . Finding the Height and Surface Area Apply the Pythagorean theorem and figure out the height of the triangular base; find the base area using the height; add up twice this area to the sum of the areas of the rectangular faces and determine the surface area of prisms.

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