

Surface Area Check for Understanding

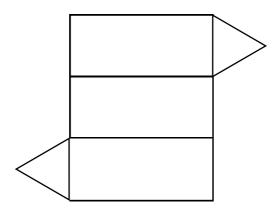
A 10 question retrieval quiz for students in grade 6.

Grades 6

Questions

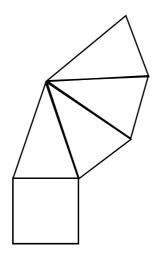
Name:Class:Date:Score:

1 Which 3D figure's net is shown?



Answer

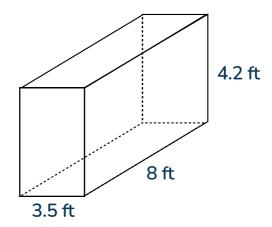
2 Which 3D figure's net is shown?



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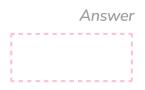
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3 Calculate the surface area of the rectangular prism.

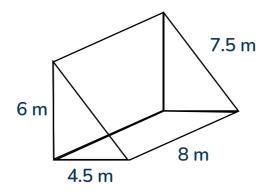


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A box is 11ft wide, 15.5ft long and 60 inches tall. How many cubic feet of fabric is needed to cover all sides of the box?



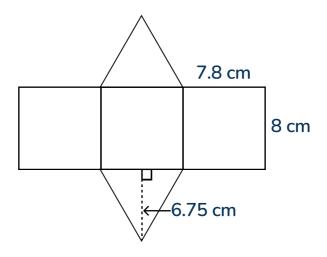
5 Calculate the surface area of the triangular prism.



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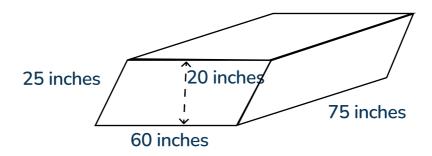
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6 Calculate the surface area of the equilateral triangular prism.



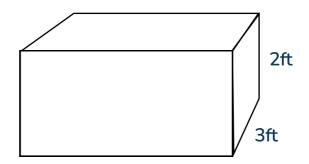
Answer

7 Calculate the surface area of the parallelogram prism.



Answer

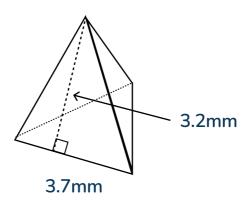
8



Rian painted an area of 47ft² on the rectangular box shown above. She painted all sides, except the bottom. How many feet long is the box?



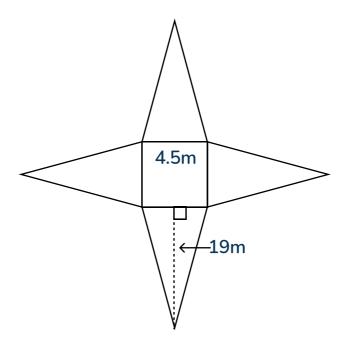
9 Calculate the surface area of the pyramid. All faces are equilateral triangles. The perpendicular height is 3.2mm





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10 Calculate the surface area of the square pyramid given the net below.



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Check for Understanding | 6th Grade | Surface Area | Answers

Answers

Question number	Question	Answers	Standard
1	Which 3D figure's net is shown?	Triangular prism	6.G.A.4
2	Which 3D figure's net is shown?	Square pyramid	6.G.A.4
3	Calculate the surface area of the rectangular prism.	Front/Back face: 3.5 x 4.2 = 14.7 Left/right face: 8 x 4.2 = 33.6 Top/bottom face: 8 x 3.5 = 28 14.7 + 14.7 + 33.6 + 33.6 + 28 + 28 = 152.6ft²	6.G.A.4
4	A box is 11 ft wide, 15.5 ft long and 60 inches tall. How many cubic feet of fabric is needed to cover all sides of the box?	Front/Back face: 15.5 x 5 = 77.5 Left/right face: 11 x 5 = 55 Top/bottom face: 11 x 15.5 = 170.5 77.5 + 77.5 + 55 + 55 + 170.5 + 170.5 = 606ft²	6.G.A.4
5	Calculate the surface area of the triangular prism.	Triangular base: $\frac{1}{2}$ x 4.5 x 6 = 13.5 Back side: 8 x 6 = 48 Front side: 7.5 x 8 = 60 Bottom side: 4.5 x 8 = 36 13.5 + 13.5 + 48 + 60 + 36 = 171m²	6.G.A.4

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Question number	Question	Answers	Standard
6	Calculate the surface area of the equilateral triangular prism.	Triangular base: $\frac{1}{2}$ x 6.75 x 7.8 = 26.325 Each lateral face: 8 x 7.8 = 62.4 26.325 + 26.325 + 62.4 + 62.4 + 62.4 = 239.85cm ²	6.G.A.4
7	Calculate the surface area of the parallelogram prism.	Parallelogram base: 20 x 60 = 1,200 Top/bottom faces: 75 x 60 = 4,500 Left/right faces: 75 x 25 = 1,875 1,200 + 1,200 + 4,500 + 4,500 + 1,875 + 1,875 = 15,150 inches ²	6.G.A.4
8	Rian painted an area of 47ft ² on the rectangular box shown above. She painted all sides, except the bottom. How many feet long is the box?	5ft	6.G.A.4
9	Calculate the surface area of the pyramid. All faces are equilateral triangles. The perpendicular height is 3.2mm	Area of one triangular face: ½ x 3.7 x 3.2 = 5.92 5.92 + 5.92 + 5.92 + 5.92 + 5.92 + 5.92 = 23.68mm ²	6.G.A.4
10	Calculate the surface are of the square pyramid given the net below.	Square bases: 4.5×4.5 = 20.25 Each lateral face: $\frac{1}{2} \times 4.5 \times 19 = 42.75$ 20.25 + 42.74 + 42.75 +42.75 +42.75 = 191.25m ²	6.G.A.4

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