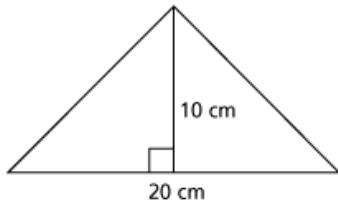


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6th Grade Unit 7 Math Review

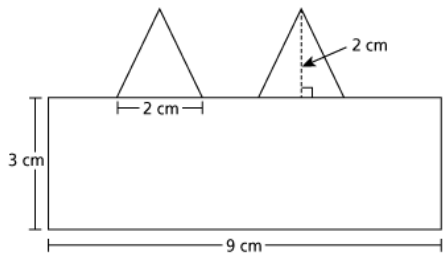
1. What are possible measurements of a triangle with an area of 12 square centimeters?

2. What is the area of this triangle?



3. Nathan cut a piece of wood in the shape of a right triangle. The base of the wood is 10 inches long and the area of the piece of wood is 35 square inches. What is the height of the piece of wood?

4. The triangular sections in the figure are congruent. What is the area of the figure?



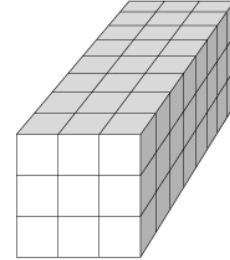
5. What is the area of a sheet of paper that has a width of 9 inches and a length of 14.5 inches?

6. Rachel wants to carpet the hallway and guest room in her house. She knows that the room measures 14 feet by 16 feet and the hallway is 3.5 feet by 10 feet. Draw and label a picture that she could use to determine how much carpet to buy.

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7. A box has the dimensions $5\frac{1}{2}$ inches, $3\frac{1}{2}$ inches, and $8\frac{1}{4}$ inches. What is the volume of the box?

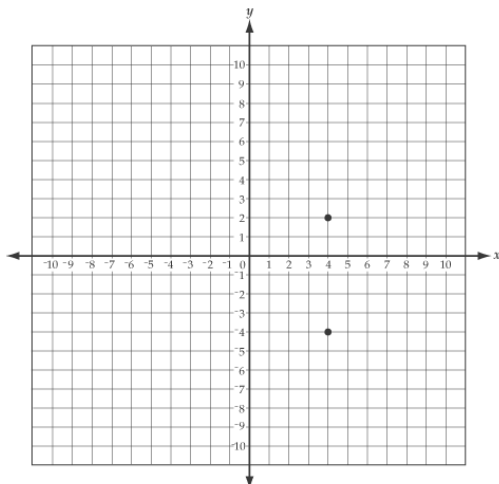
8. What is the volume of the rectangular prism to the right?



9. Lindsey has a box with a length of 11 inches, a width of 6 inches, and a height of 12 inches. How many cubes with a volume of 2 cubic inches can fit inside the box?

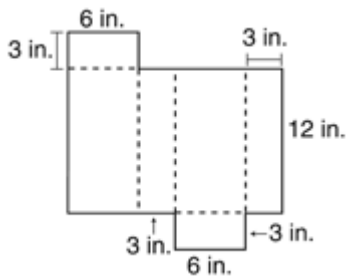
10. Rectangle $ABCD$ has points $A(-3, 3)$, $B(3, 3)$, and $C(3, -1)$. What are the coordinates of Point D ?

11. Zack plotted the points $(4, 2)$ and $(4, -4)$ on the coordinate grid. He wants to plot two more points so she can create a square. Name two points he could use.

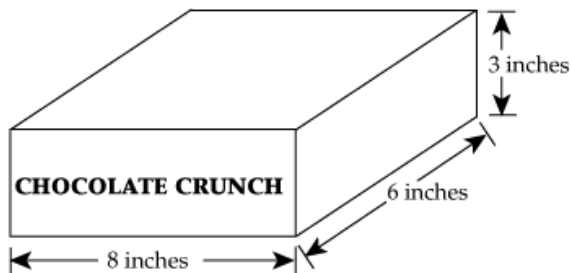


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12. What is the surface area of the rectangular prism?



13. A chocolate candy bar company is introducing a larger box for its Chocolate Crunch. What is the surface area of the new Chocolate Crunch box?



14. Mr. Brown has 30 feet of fence to build a rectangular pen. If the pen is going to be 8 feet long, how wide should it be?

15. Which two figures would have a triangle as a face?

16. Logan needs to wrap a gift box that is 12 inches long, 10 inches wide, and 4 inches high. Which measure will tell him how much paper he needs to cover the box?

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17. A box is in the shape of a cube. How many

Edges:

Vertices:

Faces:

One face of the box has a height of 9 inches. What is the total length of all the edges of the box?

18. Create a coordinate grid and plot the following points:

$A(-4, -2)$, $B(-4, 2)$, $C(-2, 2)$, $D(-2, -2)$

Connect the points to form the vertices of a 4-sided figure.

Describe the figure you created.