

- 1 The area of a triangle is 62 square inches. The height is one-half the length of the base. What is the approximate height of the triangle?

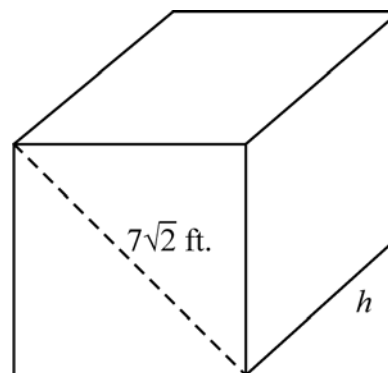
A 3.9 inches  
B 7.9 inches  
C 8.2 inches  
D 11.1 inches

**GR** James works at a furniture store. He earns \$9.00 per hour for the first 40 hours he works in one week. When he works more than 40 hours in a week, his hourly rate for the extra hours is 50 percent higher than his standard rate. James also earns a commission of 3 percent on his total sales for the week.

How much does James earn for a week in which he works 50 hours and makes \$2000.00 in sales?

	5	5	5	.			
0	0	0	0		0	0	
1	1	1	1		1	1	
2	2	2	2		2	2	
3	3	3	3		3	3	
4	4	4	4		4	4	
5	●	●	●		5	5	
6	6	6	6		6	6	
7	7	7	7		7	7	
8	8	8	8		8	8	
9	9	9	9		9	9	

- 2 A rectangular prism with square base is shown below.



A formula for the volume of a rectangular prism is  $V = Bh$ . The volume of the rectangular prism shown is 661.5 cubic feet. Which expression can be used to find  $h$ , the height of the rectangular prism, in feet?

F  $7\sqrt{661.5}$

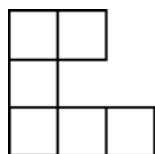
G  $\frac{661.5\sqrt{2}}{(2)(7)}$

H  $\frac{661.5}{(2)(7)^2}$

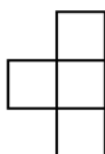
J  $\frac{(661.5)}{7^2}$

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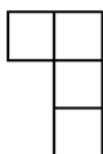
- 3 What is the least number of cubes needed to form a three-dimensional figure with the given left side, front, and top views?



left side



front



top

- A 7 cubes
- B 8 cubes
- C 9 cubes
- D 10 cubes

- 4 Gretchen is rolling a number cube. What is the probability of rolling a 1 followed by a 2 or a 3?

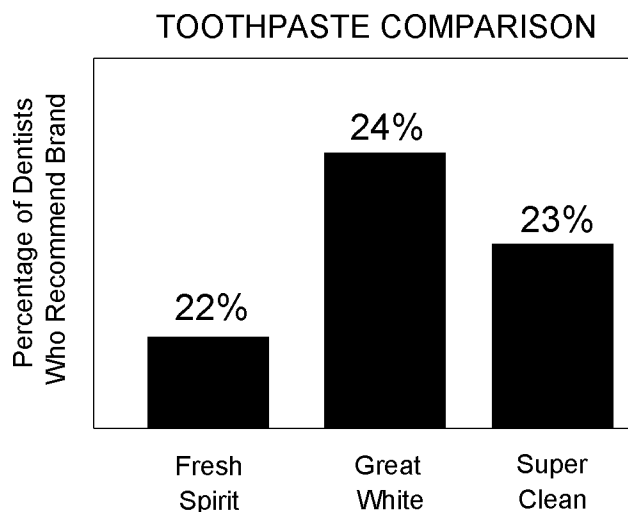
F  $\frac{1}{36}$

G  $\frac{1}{18}$

H  $\frac{1}{9}$

J  $\frac{1}{2}$

- 5 Janelle saw an ad for Great White toothpaste that included the graph shown below.



Which one of the following characteristics makes the graph misleading?

- A The bars are in the wrong order. They should be ordered from lowest percentage to highest percentage.
- B The data is represented on a bar graph instead of a circle graph.
- C The bars should be horizontal instead of vertical.
- D The scale increments make the percentage of dentists who recommend Great White appear to be much greater than the other brands.



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Item Number	Reporting Category	Readiness or Supporting	Content Student Expectation	Process Student Expectation	Correct Answer
1	1	Supporting	8.1 (C)	8.14 (D)	B
2	2	Readiness	8.3 (B)	8.14 (B)	555
3	4	Supporting	8.8 (B)	8.15 (A)	J
4	3	Supporting	8.7 (A)	8.14 (C)	A
5	5	Readiness	8.11 (A)		G
6	5	Readiness	8.13 (B)	8.15 (A)	D