

- 1) Use the menu below to answer the question.

Pizza Choices

Pizza Size	Diameter	Cost
Mini Cheese	6"	\$5.00
Medium Cheese	10"	\$9.00
Large Cheese	14"	\$11.00
Jumbo Cheese	16"	\$13.00
Family Cheese	20"	\$16.00
By the Slice		\$3.00

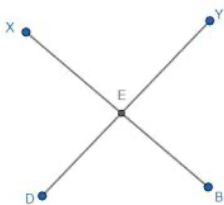
How many medium pizzas does it take to have the same amount of top surface area as in a family cheese pizza?

- A. 2
B. 3
C. 4
D. 5
E. 6

- 2) What is the perimeter, in centimeters (cm), of a rectangle with an area of 84 cm^2 , and a width of 7 cm?

- A) 7 cm
B) 12 cm
C) 19 cm
D) 38 cm
E) 84 cm

- 3) Consider the figure below.

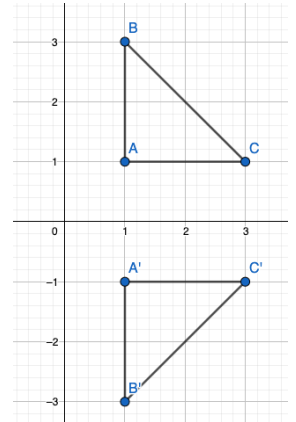


If $m\angle XEY$ is $3x+16$ degrees and $\angle BED$ is $8x+9$ degrees, then what is the measure of $\angle YEB$?

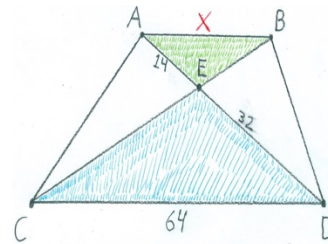
- A) 5 degrees
B) 15 degrees
C) 31 degrees
D) 149 degrees

- 4) In the figure below, what transformation of $\triangle ABC$ produces $\triangle A'B'C'$?

- A) a translation down
B) a translation up
C) a clockwise rotation
D) a reflection over the x-axis
E) a reflection over the y-axis



- 5) Trapezoid $ABDC$ with diagonals $\overline{AD}$ and $\overline{BC}$ is shown below.

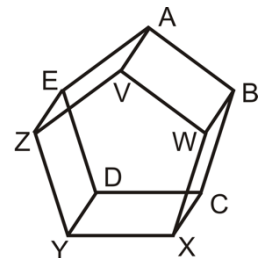


If $\triangle CDE$ is similar to $\triangle BAE$, what is the length of $\overline{AB}$?

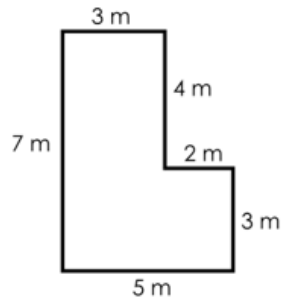
- A) 14 units
B) 28 units
C) 32 units
D) 36 units
E) 64 units

- 6) In the figure below which pair of segments are skew?

- A) $\overline{AB}$ and $\overline{AE}$
B) $\overline{AB}$ and $\overline{AV}$
C) $\overline{CX}$ and $\overline{DY}$
D) $\overline{AE}$ and $\overline{ED}$
E) $\overline{AB}$ and $\overline{DY}$



- 7) The diagram below shows the measurements of an irregular figure. Which expression represents a method for finding the area of the figure?



- A) $7 * 5$
B) $(3 * 5) + (7 * 3)$
C) $7 + 3 + 4 + 2 + 3 + 5$
D) $(7 * 5) - (4 * 2)$
E) $(3 * 2) + (7 * 5)$
- 8) Which set of numbers is not a possible combination of lengths, in centimeters, of the sides of a triangle?
- A) 7, 8, 10
B) 6, 8, 12.
C) 5, 9, 14
D) 18, 24, 30
E) 6, 6, 10