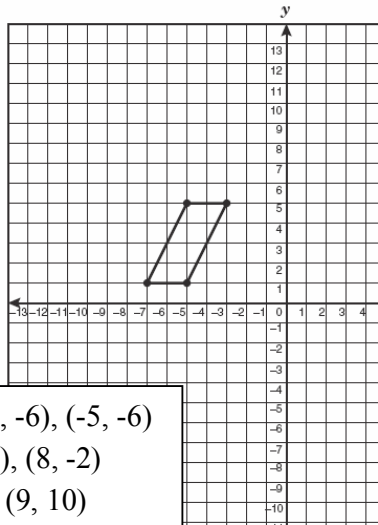


Objective 8 - Page 4 of 6

A parallelogram is graphed on the grid. Which set of coordinates identifies the vertices of a similar figure?



- F** (-2, -1), (-4, -1), (-3, -6), (-5, -6)
- G** (0, -2), (0, -5), (8, 1), (8, -2)
- H** (1, 2), (1, 6), (9, 6), (9, 10)
- J** (-1, -1), (0, 3), (2, -1), (3, 3)

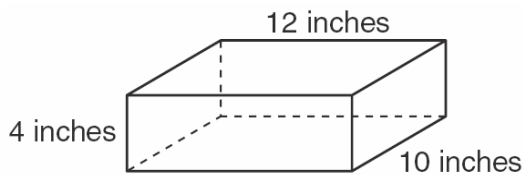
Feb '06 Obj 8 - # 30

A building-trades class built a circular spinner for the school carnival. The spinner has a diameter of 48 inches and is divided into 12 congruent sectors. What is the approximate area of each of the sectors on this spinner?

- F** 603 in.<sup>2</sup>
- G** 151 in.<sup>2</sup>
- H** 25 in.<sup>2</sup>
- J** 13 in.<sup>2</sup>

Feb '06 Obj 8 - # 56

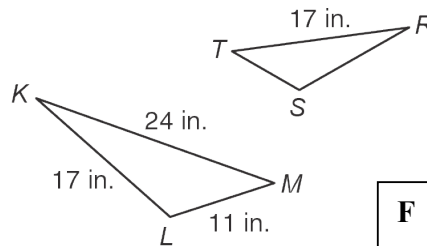
What is the volume of a similar rectangular box with dimensions that are 3.5 times larger than the dimensions of the rectangular box shown below?



- F** 5,880 in.<sup>3</sup>
- G** 17,836 in.<sup>3</sup>
- H** 20,580 in.<sup>3</sup>
- J** 1,680 in.<sup>3</sup>

Feb '06 Obj 8 - # 32

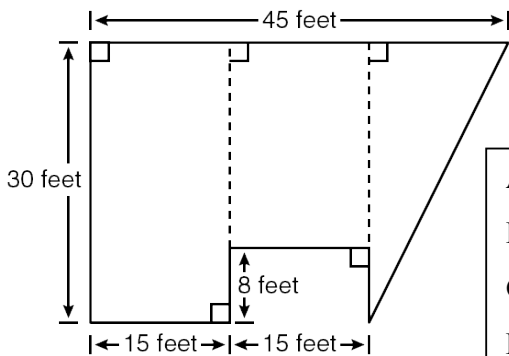
Look at the figures below. If  $\triangle KLM \sim \triangle RST$ , which is closest to the length of  $\overline{ST}$ ?



- F** 15.52 inches
- G** 9.81 inches
- H** 7.79 inches
- J** 12.04 inches

Dec '06 Obj 8 - # 12

Linda has divided her garden into 3 parts, as shown below. What is the area of her garden?



- A** 1005 ft<sup>2</sup>
- B** 1230 ft<sup>2</sup>
- C** 1350 ft<sup>2</sup>
- D** 1470 ft<sup>2</sup>

Feb '06 Obj 8 - # 47

Brandon wants to reduce a figure that is 9 inches tall and 16 inches wide so that it will fit on a 9-inch-by-12-inch piece of paper. If he reduces the figure proportionally, what is the maximum size the reduced figure could measure?

- F** 12 inches by  $21\frac{1}{3}$  inches
- G** 9 inches by 12 inches
- H**  $5\frac{1}{16}$  inches by 9 inches
- J**  $6\frac{3}{4}$  inches by 12 inches

Dec '06 Obj 8 - # 38