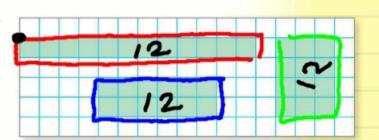


Solve How can you apply the strategy?

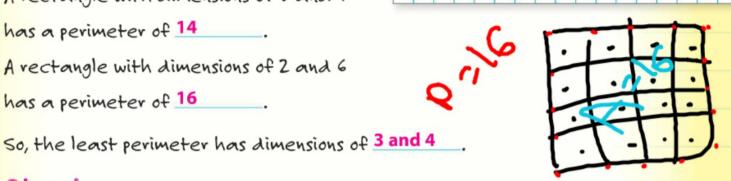
A rectangle with dimensions of 12 and 1 has a perimeter of 26.

A rectangle with dimensions of 3 and 4 has a perimeter of

A rectangle with dimensions of 2 and 6 has a perimeter of 16.



A rectangle with dimensions of 3 and 4 has a perimeter of 14 A rectangle with dimensions of 2 and 6 has a perimeter of 16.





Check Does the answer make sense?

Use addition to check your answer.

$$6+2+6=16$$

$$3+4+3+4=14$$
 $2+6+2+6=16$ $12+1+12+1=26$

Analyze the Strategy



Identify Structure Describe a design with a perimeter and an area of 16.

Sample answer: The designer would use 4 tiles in each of 4 rows to arrange the tiles, so the arrangement would be a square.

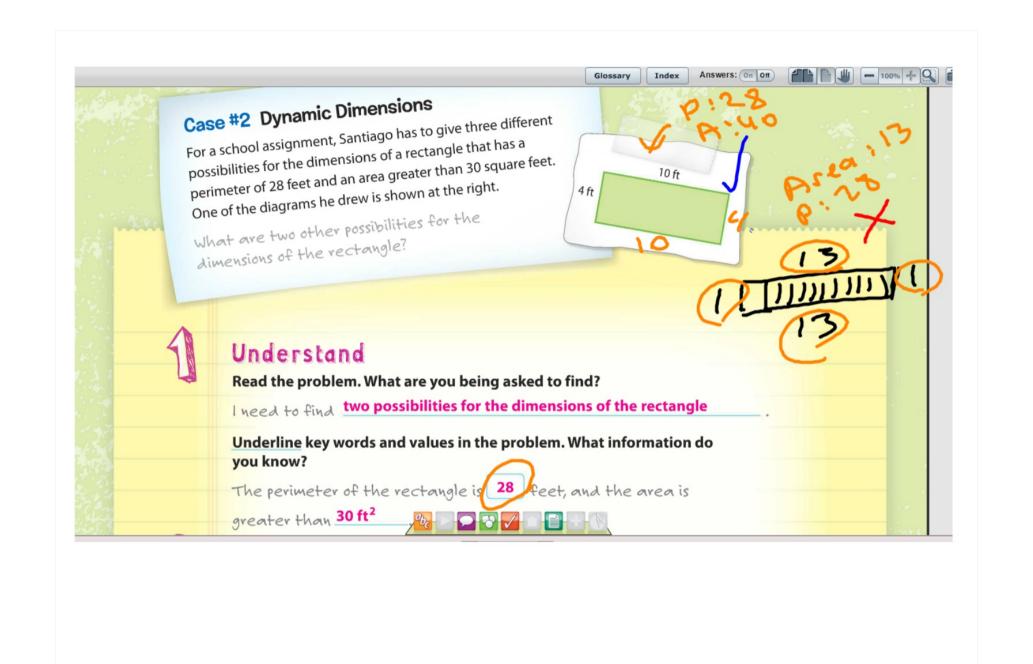


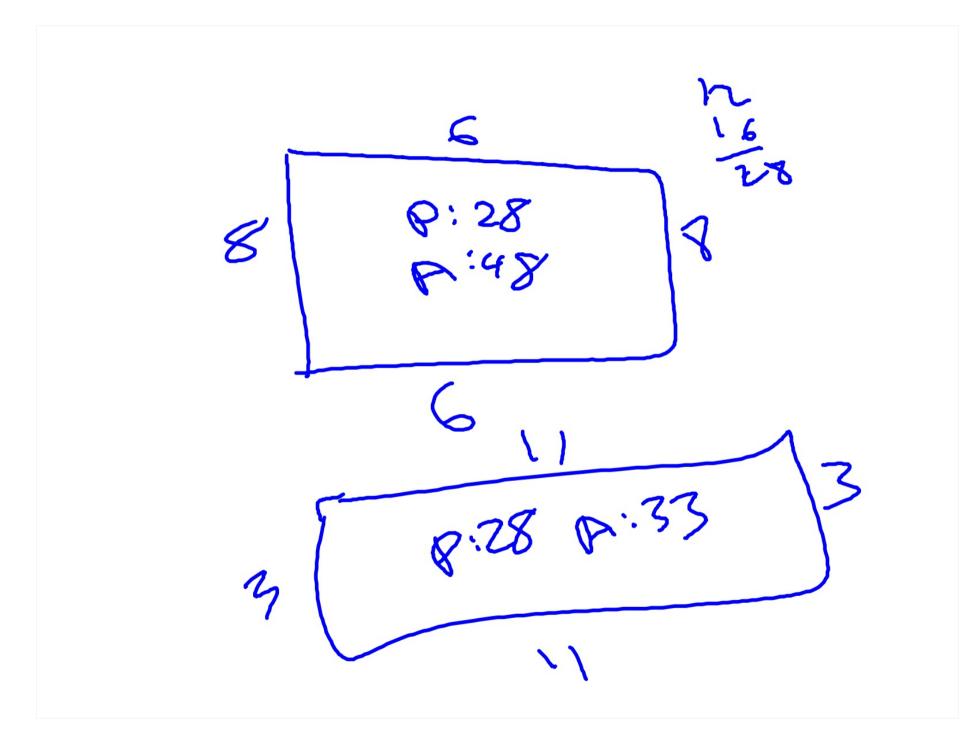


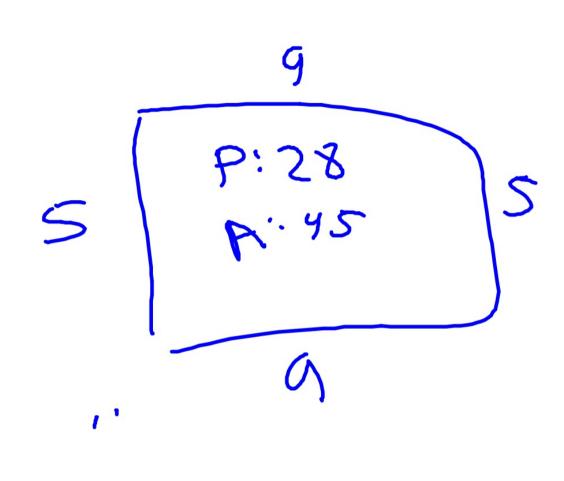




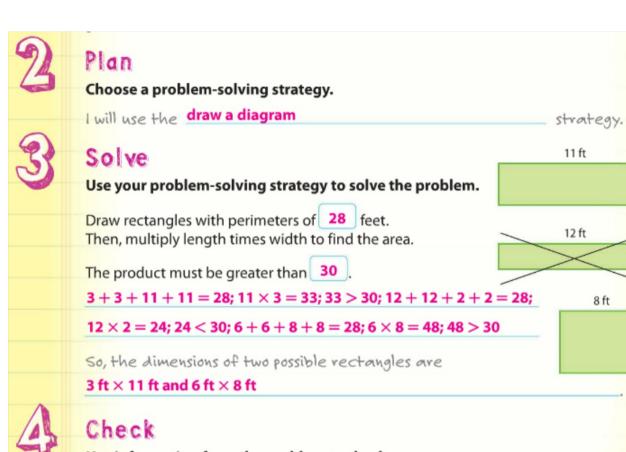








11:5



3 ft

2 ft

6ft



Use information from the problem to check your answer.

Reread the problem. Check that both conditions have been met.

Area: 33 > 30 and 48 > 30 Perimeter: 28 = 28

Case #3 Decorations

A rectangular table that is placed lengthwise against a wall is 8 feet long and 4 feet wide. Balloons will be attached 8 inches apart along the three exposed sides, with one balloon at each of the four corners.

How many balloons are needed?

25 balloons



The mall is 15 miles from your home. Your school is one-half of the way from your home to the mall. The library is two-fifths of the way from your school to the mall.

How many miles is it from your home to the library?

10.5 mi

Case #5 Paint

Miller's Hardware store was having a sale on pints and gallons of paint. There were 107 people who bought pints of paint and 132 people who bought gallons of paint. 92 customers bought only pints. Some people bought both pints and gallons, and 48 customers did not buy any pints or gallons of paint.

How many customers shopped during the sale?

272 customers



Case #6 Geometry

Make a figure that contains three triangles, a parallelogram, and a trapezoid using 7 congruent line segments. Draw your figure at the right. Sample answer shown.

