1.3 Square Roots of Perfect Squares

GOAL

Use a variety of strategies to determine the square root of a perfect square.

1. Calculate.

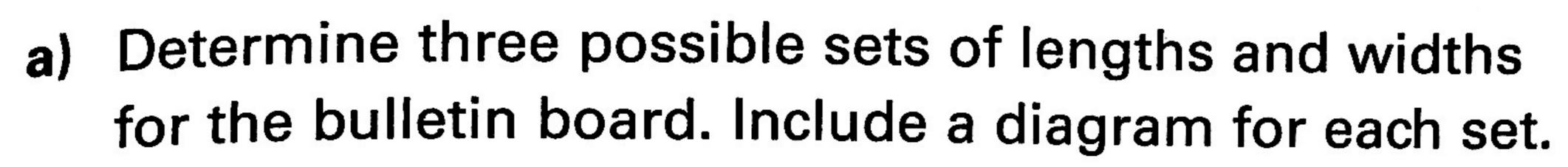
a)
$$\sqrt{9} = 3$$

c)
$$\sqrt{196} - 14$$

b)
$$\sqrt{900} = 30$$

d)
$$\sqrt{625} = 25$$

2. A bulletin board has an area of 1296 cm².



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The square root of a number is one of its two identical factors.

For example, the square root of 100 is 10 since $10 \times 10 = 100$.

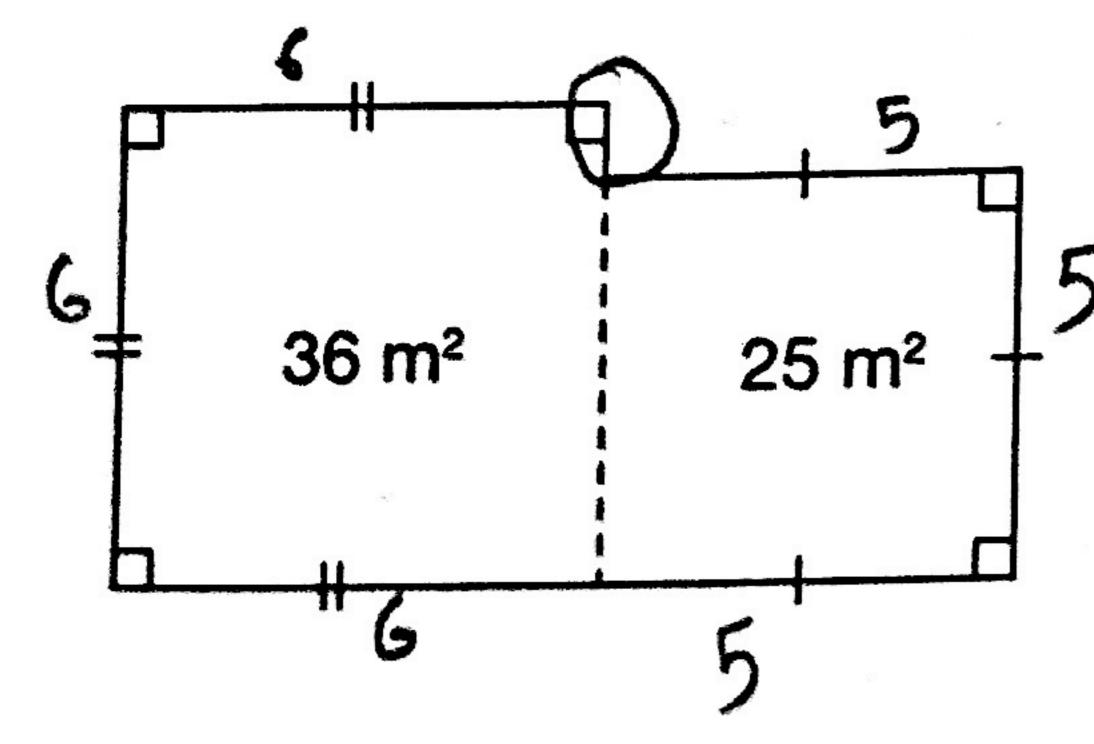
You can represent a square root using the symbol $\sqrt{\ }$, under which the entire number is placed.

For example, $\sqrt{121} = 11$, and is read "the square root of 121 equals 11."



c) How else can you determine the possible length and width of the corkboard?

3. Consider the following diagram of two rooms. What is the total perimeter of the figure?



$$15 + 18 + 1$$

$$= 33 + 1$$

$$= 34 m$$