

**Area of Rectangles In Word Problems - Guided Lesson Explanation****Explanation 1:**

Step 1) We have to first realize that we are looking for the smallest piece of land available. The smallest piece of land would have the least area. We need to find the area of all four land masses.

Step 2) To find the area, multiply all 4 available heights and widths.

a)  $50 \text{ feet} \times 10 \text{ feet} = \underline{500 \text{ feet}}$

b)  $25 \text{ feet} \times 12 \text{ feet} = \underline{300 \text{ feet}}$

c)  $30 \text{ feet} \times 30 \text{ feet} = \underline{900 \text{ feet}}$

d)  $10 \text{ feet} \times 20 \text{ feet} = \underline{200 \text{ feet}}$

Step 3) By calculating all the above figures, we find that 200 feet offers the least space.

So, 200 feet of land is suitable for Jack for his business.

**Explanation 2:**

Step 1) We have to identify that we are looking for the biggest pool with the most area available. If we calculate the area of each pool, we can spot the biggest pool.

Step 2) Multiply the heights and widths of all available pools:

a)  $26 \text{ feet} \times 8 \text{ feet} = \underline{208 \text{ feet}}$

b)  $15 \text{ feet} \times 10 \text{ feet} = \underline{150 \text{ feet}}$

c)  $30 \text{ feet} \times 11 \text{ feet} = \underline{330 \text{ feet}}$

d)  $45 \text{ feet} \times 25 \text{ feet} = \underline{1,125 \text{ feet}}$

Step 3) We find that 1125 offers the largest pool area. It's a monster!

So, the 1,125-foot pool is suitable for Ben's pool party: letter d.



Name \_\_\_\_\_

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### **Explanation 3:**

Step 1) We need to find the grounds with the largest area. We must calculate the area of all the grounds and find the largest area.

Step 2) Multiply the heights and widths of all available grounds to find their area:

a)  $50 \text{ feet} \times 30 \text{ feet} = \underline{1500 \text{ feet}}$

b)  $32 \text{ feet} \times 16 \text{ feet} = \underline{512 \text{ feet}}$

c)  $25 \text{ feet} \times 20 \text{ feet} = \underline{500 \text{ feet}}$

d)  $53 \text{ feet} \times 15 \text{ feet} = \underline{795 \text{ feet}}$

Step 3) By calculating all the above figures, we find that 1500 feet offers the largest ground area.

So, 1,500 foot plot is most suitable for the Saint Mary's school festival.

