

Lesson 1: Framing a Floor

The \$500 estimate is so low because the area estimate was low AND the price per square foot was rounded down. Point out that maybe they would have done better rounding \$1.19 up to something higher to account for rounding the 11' sections and 22' foot section down...

So, maybe $500 \text{ sq ft} * \$1.50$? $\$500 + \text{half of that} \dots \$250 = \$750$. Now that is pretty high. The estimate with \$1.20 is closest, but also possibly hardest to do without a calculator.

Take away: The goal with estimating isn't necessarily to get the 'right answer.' It is to be in the ballpark so you know if you made a mistake, or so you can plan.

MAKING CONNECTIONS

Record the important mathematical ideas from the discussion

Making Connections: Main Ideas to Highlight

- In construction, there are often many 'correct' answers depending on how you handle waste
- Spending time estimating/approximating at the beginning of a job can prevent mistakes later
- Area of a rectangle is calculated by multiplying the length and width of the sides
- Paying attention to language is important... notice in Question #3, 'how many' meant add it all together, but in Question #4, 'how many' meant divide
- Asking to find the total length around the outside is asking for the 'perimeter'
- Asking to find the total flooring is asking for the 'area'
- Notice the units for length: feet
- Notice the units for area: square feet

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Practice/Homework

Spent time at the beginning of the next class discussing the estimation strategies for #27

Pg 3 24. As is

Pg 5 29. As is

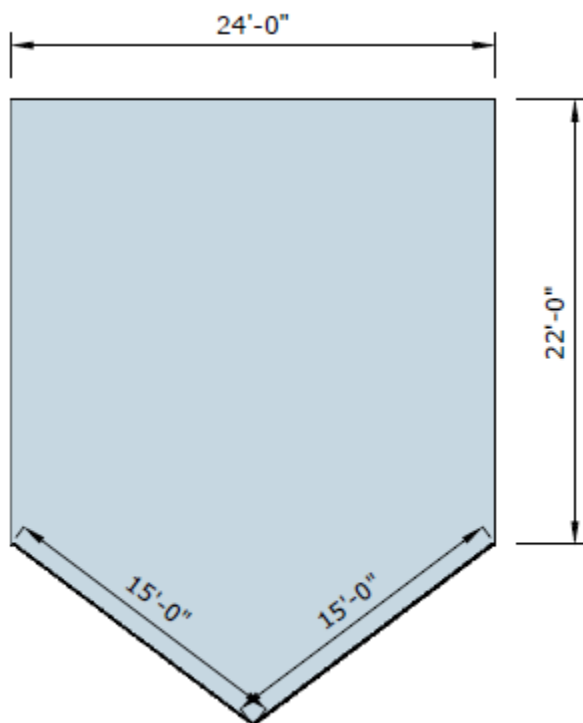
Pg 12 27. First estimate and then complete the problem. As is

28. As is

Pg 87 21. As is. The cost for grass seed is \$0.75/sq ft. How much will seeding the yard cost?

Pg 97 2. Using any method.

What is the perimeter of the blue figure?



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A former basketball star decides to build his home in the shape shown below. What will the perimeter of his home be?

