Independent Practice

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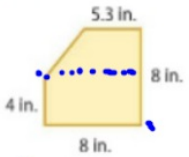
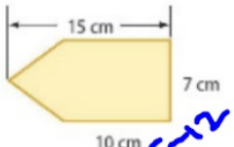
eHelp

Find the area of each figure. Round to the nearest tenth if necessary. (Example 1)

1. **58.6 in²**

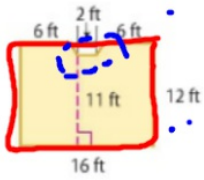


2. **87.5 cm²**



3. The floor plan of a kitchen is shown at the right. If the entire kitchen floor is to be tiled, how many square feet of tile are needed? (Example 2)

189 ft²



4. Ms. Friedman and Mrs. Elliot both teach sixth grade math. They share a storage closet. What is the total area of both rooms and the storage closet? (Examples 3 and 4)

2,844 ft²

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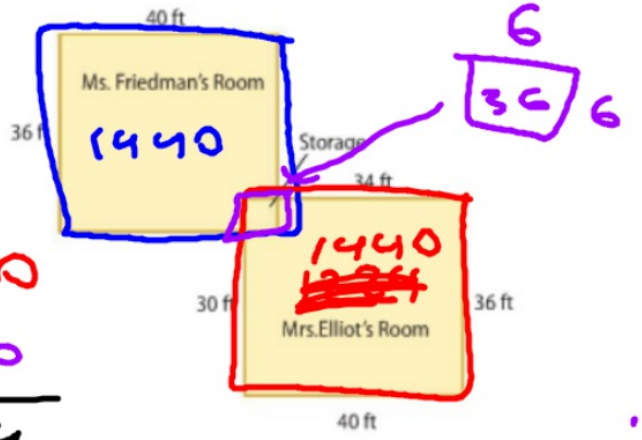
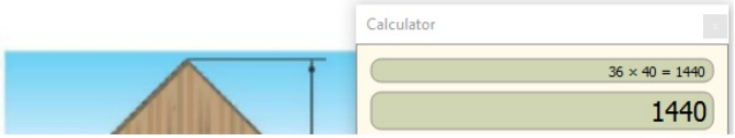


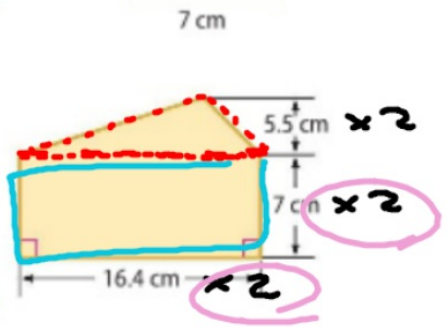
1440 + 1440 = 2880
− 36
2844

5 The diagram shows one side of a storage barn.

a. This side needs to be painted. Find the total area to be painted. **467.4 ft²**



9. **Make a Conjecture** Refer to the composite figure at the right. Make a conjecture about how the area of the composite figure changes if each dimension given is doubled. Then test your conjecture by doubling the dimensions and finding the area.



The area is multiplied by 4. Original area: 159.9 cm^2; new area: 639.6 cm^2

[redacted]

$16.4 \times 7 = 114.8$

$\frac{1}{2}(5.5)(16.4) = 45.1$

$114.8 + 45.1 = 159.9$

159.9 × 4 = 639.6

639.6