

The Miller Family's Renovation

The Miller family is renovating their home. They need to figure out what to buy and how much to buy. Will you help them out? Solve the problems below using Addition, Subtraction, Multiplication or Division.

1. Ms. Miller wants the kitchen and dining room to be tiled. The kitchen is 16 feet by 10 feet and the dining room is 12 feet by 10 feet. Each tile is 1 foot square. How many tiles would they need to buy?

2. _____

3. _____



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4. Cathy wants to paint her room purple. There are four walls in her room and each of them are 14 feet by 8 feet. One of the walls has a 4 feet by 2 feet window on it. If a can of paint will cover 80 square feet, how many cans of paints at least will they need to paint her room?

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$$(16 \times 10) + (12 \times 10) = 160 + 120 = 280 \text{ tiles}$$

2. They are also looking at some carpet for their 16 feet by 20 feet big



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$$42 \times 70 = 2940 \text{ in}^2$$

$$44 \times 64 = 2816 \text{ in}^2$$

Therefore, Table A is bigger, and Mr. Miller should get Table A.

4. Cathy wants to paint her room purple. There are four walls in her room and each of them are 14 feet by 8 feet. One of the walls has a 4 feet by 2 feet window on it. If a can of paint will cover 80 square feet, how many cans of paints at least will they need to paint her room?

$$(14 \times 8) \times 4 - (4 \times 2) \div 80 = 5.5$$

Therefore, they will need at least 6 cans of paint.