



At a pumpkin patch, small pumpkins are sold for \$3, medium pumpkins are sold for \$7, and large pumpkins are sold for \$12. Ms. Jones is in charge of the decorations for the town's fall festival and purchased 16 pumpkins from the pumpkin patch including at least one of each size. She spent a total of \$109. How many of each size pumpkin did she buy?

| S = # of small pumpkins m = # of medium pumpkins L = # of large pumpkins S = # of large pumpkins L = # of large pumpkins Each of the lb pumpkins cost her at least \$3, which uses up $$48.$ The remaining $61$ must have been used for me upcharge for Med + large pumpkins (7-3)m + (12-3)L=b1 Am + 9L = b1 4m + 9L = b1 S = # of small pumpkins S = m + 2 = lof S = m + 2 = lof S = m + 2 = bil S = m +$  |
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| $4m + 9l = 61   clcb since she bought at least 1$ $\frac{l   b1 - 9l}{2}  and buying 6 would make m < 1.$ $\frac{52}{4} = 13  1 \text{ large, 13 medium, 2 small}$   |
| 4 25 multiple of $\frac{10}{5} = 4$ or $\frac{10}{5} = 4$ $\frac{10}{7} = 4$ |
| Jamirea says there are two possible answers so there's no way of knowing for sure how<br>many of each kind Ms. Jones bought. Do you agree or disagree? Explain.  |
| yes, there are two possible combinations of  |
| small, medium, and large pumpkins that cost \$109 for  |
| le pumpkins so we don't know which of these<br>combinations she actually bought.   |
| 1 large, 13 medium, 2 small  |
| or   |
| 5 Large, 4 medium, 7 small   |
| Math Medic   |