

A recipe calls for  $3\frac{3}{4}$  cups of flour and  $2\frac{1}{2}$  cups of sugar. If one batch makes 14 cookies then answer the following.

a) How much more flour than sugar does the recipe have?

$$3\frac{3}{4} - 2\frac{1}{2}$$

$$\frac{15}{4} - \frac{5}{2}$$

$$\frac{15}{4} - \frac{10}{4}$$

$$= \frac{5}{4} = 1\frac{1}{4} \text{ cups more flour than sugar}$$

b) How much flour and sugar does the recipe have altogether?

$$3\frac{3}{4} + 2\frac{1}{2}$$

$$\frac{15}{4} + \frac{5}{2}$$

$$\frac{15}{4} + \frac{10}{4}$$

$$= \frac{25}{4} = 6\frac{1}{4} \text{ cups of flour and sugar altogether}$$

c) If I want to make  $4\frac{1}{2}$  batches then how much sugar is needed?

$$4\frac{1}{2} \times 2\frac{1}{2}$$

$$\frac{9}{2} \times \frac{5}{2}$$

$$\frac{45}{4} = 11\frac{1}{4}$$

You will need  $11\frac{1}{4}$  cups of sugar.

d) If I make  $4\frac{1}{2}$  batches then how many cookies can I make?

$$4\frac{1}{2} \times 14$$

$$\frac{9}{2} \times \frac{14}{1}$$

$$\Rightarrow \frac{126}{2}$$

$$\Rightarrow 63 \text{ cookies}$$

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~~17~~

# 10, # 11, # 12a

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# 1a, 2b, 3abcd,

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$$\frac{5}{2} - \frac{20}{20} \div \frac{1}{10} - \frac{1}{2}$$

$$\frac{4}{20} \times \frac{10}{1}$$

$$\frac{5}{2} + \frac{40}{20} - \frac{1}{2}$$

$$\frac{5}{2} + \frac{40}{20} = \frac{90}{40} - \frac{1}{2}$$