

Mixing with Mixed Numbers



Tanisha and Derek run a bakery together. This involves a lot of experimenting with recipes and ingredients.

Task 1 – Tanisha realises her latest batch of cookies isn't sweet enough. Add together these amounts of sugar she wants to try adding.

$$1 \frac{3}{4} \text{ tsp} + 2 \text{ tsp} = \dots\dots\dots$$

$$\frac{6}{8} \text{ tsp} + 1 \frac{1}{8} \text{ tsp} = \dots\dots\dots$$

$$2 \frac{2}{5} \text{ tsp} + \frac{2}{5} \text{ tsp} = \dots\dots\dots$$

Task 2 – Tanisha and Derek are calculating the quantity of ingredients needed for their latest bread recipes. Fill in the missing answers to the sums below.

Cinnamon for cinnamon loaf: $3 \text{ tbsp} + \dots\dots\dots \text{ tbsp} = 4 \frac{3}{8} \text{ tbsp}$

Rosemary for rosemary rolls: $\frac{8}{12} \text{ tbsp} + \dots\dots\dots \text{ tbsp} = 3 \frac{11}{12} \text{ tbsp}$

Ginger for gingerbread: $4 \frac{3}{5} \text{ tbsp} + \dots\dots\dots \text{ tbsp} = 7 \frac{3}{5} \text{ tbsp}$



Task 3 – They both calculate the amount of flour needed for this recipe and get different answers.

Tanisha: $2 \frac{7}{8} \text{ cups} + 2 \frac{5}{8} \text{ cups} = 5 \frac{4}{8} \text{ cups}$

Derek: $2 \frac{7}{8} \text{ cups} + 2 \frac{5}{8} \text{ cups} = 5 \frac{1}{2} \text{ cups}$

Explain why they are **both** correct.

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Task 4 – Tanisha accidentally smudges cookie dough on her latest recipe, so Derek can't follow it. What could the missing numbers be?

Can you find more than one answer?



$$\boxed{} \frac{\boxed{}}{10} \text{ cups} + \frac{\boxed{}}{10} \text{ cups} = 2 \frac{8}{10} \text{ cups}$$

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Answers



Tanisha and Derek run a bakery together. This involves a lot of experimenting with recipes and ingredients.

Task 1 – Tanisha realises her latest batch of cookies isn't sweet enough. Add together these amounts of sugar she wants to try adding.

$$1\frac{3}{4} \text{ tsp} + 2 \text{ tsp} = \dots\dots\dots 3\frac{3}{4}$$

$$\frac{6}{8} \text{ tsp} + 1\frac{1}{8} \text{ tsp} = \dots\dots\dots 1\frac{7}{8}$$

$$2\frac{2}{5} \text{ tsp} + \frac{2}{5} \text{ tsp} = \dots\dots\dots 2\frac{4}{5}$$

Task 2 – Tanisha and Derek are calculating the quantity of ingredients needed for their latest bread recipes. Fill in the missing answers to the sums below.

Cinnamon for cinnamon loaf: $3 \text{ tbsp} + \dots\dots\dots 1\frac{3}{8} \text{ tbsp} = 4\frac{3}{8} \text{ tbsp}$

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Tanisha: $2\frac{7}{8} \text{ cups} + 2\frac{5}{8} \text{ cups} = 5\frac{4}{8} \text{ cups}$

Derek: $2\frac{7}{8} \text{ cups} + 2\frac{5}{8} \text{ cups} = 5\frac{1}{2} \text{ cups}$

Explain why they are **both** correct.

They are both correct because $\frac{4}{8}$ is equivalent to $\frac{1}{2}$.

Task 4 – Tanisha accidentally smudges cookie dough on her latest recipe, so Derek can't follow it. What could the missing numbers be?

Can you find more than one answer?



E.g.

$$\boxed{2} \frac{\boxed{7}}{10} \text{ cups} + \frac{\boxed{1}}{10} \text{ cups} = 2\frac{8}{10} \text{ cups}$$