

Word problems.

Problem 1:

A bag of sugar has a mass of $2\frac{3}{8}$ kg. A second bag has a mass of $3\frac{9}{16}$ kg.

What mass of sugar is there altogether?

$$\textcircled{2} \frac{3}{8} \times \frac{2}{2} + \textcircled{3} \frac{9}{16}$$

$$5 + \frac{6}{16} + \frac{9}{16}$$

$$5 + \frac{15}{16} \Rightarrow$$

$$\boxed{5 \frac{15}{16} \text{ kg}}$$

Problem 2:

Sarah baked a cake and ate $2\frac{1}{3}$ of it, while her brother John ate $3\frac{1}{4}$ of the same cake.

How much of the cake did they eat together?

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

$$5 + \frac{4}{12} + \frac{3}{12} \Rightarrow$$

$$\boxed{5 \frac{7}{12}}$$

Problem 3:

Three pieces of carpet $3\frac{1}{5}$ meters, $4\frac{3}{4}$ meters and $2\frac{1}{2}$ meters long are joined together.

How long is the joined carpet?

$$\textcircled{3} \frac{1}{5} \times \frac{4}{4} + \textcircled{4} \frac{3}{4} \times \frac{5}{5} + \textcircled{2} \frac{1}{2} \times \frac{10}{10}$$

The LCM between
2, 4, 5 is 20

$$9 + \frac{4}{20} + \frac{15}{20} + \frac{10}{20}$$

$$9 + \frac{29}{20} \Rightarrow 9 + 1 \frac{9}{20}$$

$$\boxed{10 \frac{9}{20}}$$