

Fractions

≧Part 2≦

1. Use a model to show the multiplication for $\frac{4}{3} \times \frac{3}{2}$

$$\frac{4}{3} \times \frac{3}{2} = 2$$

2. Calculate each product.

a) $2\frac{1}{4} \times 3\frac{1}{3} = 7\frac{1}{2}$ d) $3\frac{11}{5} \times 2\frac{1}{4} = 7\frac{1}{5}$

b) $1\frac{1}{2} \times 2\frac{1}{2} = 3\frac{3}{4}$ e) $3\frac{1}{6} \times 2\frac{2}{3} = 8\frac{4}{9}$

c) $1\frac{4}{5} \times 2\frac{2}{3} = 4\frac{4}{5}$ f) $1\frac{1}{6} \times 1\frac{1}{4} = 1\frac{11}{24}$

3. A muesli recipe requires $1\frac{1}{4}$ cups of oatmeal. How many cups of oatmeal do you need for $2\frac{1}{2}$ batches?

You need $3\frac{1}{2}$ cups of oatmeal

4. Zoe had $3\frac{1}{3}$ times as much money as her brother. She spent $\frac{2}{5}$ of her money on a new CD player. Now how many times as much money does her brother have?

Zoe has twice as much money as her brother.

5. Tai calculated $3\frac{1}{3} \times 4\frac{3}{8}$. He multiplied the whole number parts together and then multiplied the fraction parts together. He got an incorrect product of $12\frac{3}{24}$. Why would estimation not help Tai realize that he had made a mistake?

Because estimation, and Tai's method's are not the correct way to multiply fractions.

6. Andrea's bedroom is $1\frac{1}{3}$ times as long as Kit's bedroom and $1\frac{2}{3}$ times as wide. What fraction of the area of Kit's bedroom is the area of Andrea's bedroom?

Andrea's bedroom is $\frac{2}{9}$ or 22.2% of Kit's bedroom.

7. The highest point in Alberta is Mount Columbia. Mount Columbia is about $4\frac{3}{5}$ times as high as the highest point in New Brunswick, Mount Carleton. Mount Carleton is about $5\frac{3}{4}$ times as high as the highest point in Prince Edward Island. Compare the height of Mount Columbia with the height of the highest point in PEI.

Mount Columbia is $26\frac{9}{20}$ times higher than the highest point in Prince Edward Island.