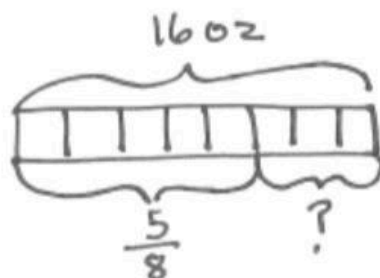


1. Kim and Courtney share a 16-ounce box of cereal. By the end of the week, Kim has eaten $\frac{3}{8}$ of the box, and Courtney has eaten $\frac{1}{4}$ of the box of cereal. What fraction of the box is left?

$$\frac{3}{8} + \frac{1}{4} =$$

$$\frac{3}{8} + \frac{2}{8} =$$

$$\frac{5}{8} \text{ eaten}$$



$$\frac{8}{8} - \frac{5}{8} = \frac{3}{8}$$

$\frac{3}{8}$ of the box is left.

2. Mathilde has 20 pints of green paint. She uses $\frac{2}{5}$ of it to paint a landscape and $\frac{3}{10}$ of it while painting a clover. She decides that for her next painting she will need 14 pints of green paint. How much more paint will she need to buy?

$$\text{Landscape } \frac{2}{5} \times 20 = \frac{2 \times \cancel{20}^4}{\cancel{5}_1} = 8 \text{ pints}$$

$$\text{Clover } \frac{3}{10} \times 20 = \frac{3 \times \cancel{20}^2}{\cancel{10}_1} = 6 \text{ pints}$$

$$\text{Used } 8 + 6 = 14 \text{ pints}$$

$$\text{Remaining } 20 - 14 = 6 \text{ pints}$$

$$\text{Needs } 14 - 6 = 8 \text{ pints}$$

Mathilde
needs 8 more
pints for the
next painting.

3. Jack, Jill, and Bill each carried a 48 ounce bucket full of water down the hill. By the time they reached the bottom, Jack's bucket was only $\frac{3}{4}$ full, Jill's was $\frac{2}{3}$ full, and Bill's was $\frac{1}{6}$ full. How much water did they spill altogether on their way down the hill?

$$\text{Jack } \frac{1}{4} \times 48 = \frac{48}{4} = 12 \text{ oz}$$

$$\text{Jill } \frac{1}{3} \times 48 = \frac{48}{3} = 16 \text{ oz}$$

$$\text{Bill } \frac{5}{6} \times 48 = \frac{240}{6} = 40 \text{ oz}$$

$$12 + 16 + 40 = 68 \text{ oz}$$

Together they
spilt 68 oz.
of water.

4. Mrs. Diaz makes 5 dozen cookies for her class. One-ninth of her 27 students are absent the day she brings the cookies. If she shares the cookies equally among the students who are present, how many cookies will each student get?

$$\frac{1}{9} \times 27 = \frac{27}{9} = 3 \quad 3 \text{ students are absent.}$$

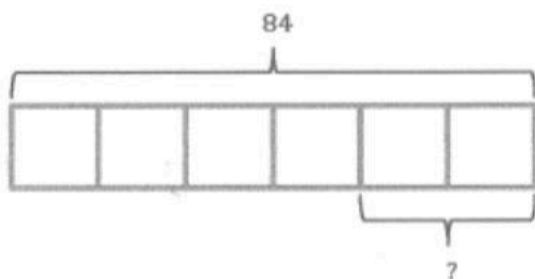
$$27 - 3 = 24 \text{ students}$$

$$5 \text{ dozen} \times 12 = 60 \text{ cookies}$$

$$60 \div 24 = \frac{60}{24} = \frac{5}{2} = 2\frac{1}{2}$$

Each student
gets $2\frac{1}{2}$ cookies.

5. Create a story problem about a fish tank for the tape diagram below. Your story must include a fraction.



There are 84 organisms in a freshwater aquarium. One half of the organisms are top-feeding fish. One sixth are crustaceans. The remaining organisms are apple snails. How many snails are in the tank?