

16. Fraction Word Problems

a)

Xiao Ming ate $\frac{1}{2}$ of a cake, and Xiao Hong ate $\frac{1}{4}$.

How much cake did they eat altogether?

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

Answer: They ate $\frac{3}{4}$ of the cake altogether.

A rope is $\frac{7}{8}$ meters long. $\frac{1}{4}$ meter was used.

How many meters are left?

$$\frac{7}{8} - \frac{1}{4} = \frac{7}{8} - \frac{2}{8} = \frac{5}{8}$$

Answer: $\frac{5}{8}$ meters are left.

A bottle has $\frac{2}{3}$ liter of water. $\frac{1}{6}$ liter was drunk.

How many liters are left in the bottle?

$$\frac{2}{3} - \frac{1}{6} = \frac{4}{6} - \frac{1}{6} = \frac{1}{2}$$

Answer: $\frac{1}{2}$ liter is left.

Xiao Hua walked $\frac{3}{5}$ km, and Xiao Li walked $\frac{1}{2}$ km.

How many kilometers did they walk altogether?

$$\frac{3}{5} + \frac{1}{2} = \frac{6}{10} + \frac{5}{10} = \frac{11}{10}$$

Answer: They walked $\frac{11}{10}$ km altogether.

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b)

A field is $\frac{5}{6}$ hectares. $\frac{1}{3}$ hectares were planted with corn.

How many hectares of field are left?

$$\frac{5}{6} - \frac{1}{3} = \boxed{}$$

c)

A cake used $\frac{1}{2}$ cup of sugar. Cookies used $\frac{3}{10}$ cup of sugar.

How many cups of sugar were used in total?

$$\frac{1}{2} + \frac{3}{10} = \boxed{}$$

d)

Xiao Gang ran $\frac{3}{4}$ km, and Xiao Qiang ran $\frac{1}{8}$ km.

How much farther did Xiao Gang run than Xiao Qiang?

$$\frac{3}{4} - \frac{1}{8} = \boxed{}$$

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e)

Xiao Ming drank $\frac{2}{5}$ liter of milk, and Xiao Hong drank $\frac{1}{10}$ liter.
How many liters of milk did they drink in total?

$$\frac{2}{5} + \frac{1}{10} = \boxed{}$$

f)

A road is $\frac{5}{6}$ km long. $\frac{1}{2}$ km has been repaired.
How many km are left to repair?

$$\frac{5}{6} - \frac{1}{2} = \boxed{}$$