How to Add Fractions?

FREE Worksheet - 1

Time: 20 minutes

(Detailed solutions at the end)

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1. $\dfrac{1}{6} + \dfrac{5}{12} + \dfrac{3}{12} =$

   Answer: _____

2. Add $\dfrac{1}{12}$ and $\dfrac{1}{2}$

   Answer: _____

3. Mr. Rodriguez had a bag of chips.

   He gave $\dfrac{1}{4}$ of the bag of chips to Daniel,

   $\dfrac{3}{8}$ of the bag of chips to Lawrence and $\dfrac{1}{8}$ of the bag of chips to Ivy.

   What fraction of the bag of chips did the children receive altogether?
   Write your answer in the simplest form.

   Answer: _____

4. Find the sum of $\dfrac{1}{3}$ and $\dfrac{2}{9}$.

Answer: _____

5. Amol and Maya bought a cake.

Amol ate $\dfrac{1}{3}$ of the cake and Maya ate $\dfrac{2}{9}$ of the cake.

What fraction of the cake did they eat altogether?

Write your answer in the simplest form.

Answer: _____

6. Ann had a watermelon. She used $\dfrac{1}{9}$ of it for shake,

$\dfrac{1}{9}$ of it for a salad and $\dfrac{4}{9}$ of it for an ice cream.

What fraction of the watermelon did she use altogether?

Write your answer in the simplest form.

Answer: _____

7. Mrs. Yeung had a wire. She cut $\frac{1}{3}$ of the wire for Ellen and $\frac{1}{9}$ of the wire for Adrienne.

What fraction of the wire did she cut all together for the two children?

Write your answer in the simplest form.

Answer: _____

8. Find the sum of $\frac{1}{3}$, $\frac{1}{12}$ and $\frac{3}{12}$

Answer: _____

SOLUTIONS

Problem 1

To add fractions, we must first express the fractions with the same denominator.

Fraction 1: $\dfrac{1}{6} = \dfrac{2}{12}$

Fraction 2: $\dfrac{5}{12}$

Fraction 3: $\dfrac{3}{12}$

Next, do the addition:

$$\dfrac{2}{12} + \dfrac{5}{12} + \dfrac{3}{12} = \dfrac{10}{12}$$

Finally, we simplify the fraction:

$$\dfrac{10 \div 2}{12 \div 2} = \dfrac{5}{6}$$

So, $\dfrac{1}{6} + \dfrac{5}{12} + \dfrac{3}{12} = \dfrac{5}{6}$

Problem 2

To add fractions, we must first express the fractions with the same denominator.

Fraction 1: $\dfrac{1}{2} = \dfrac{6}{12}$

Fraction 2: $\dfrac{1}{12}$

Next, do the addition:

$$\dfrac{6}{12} + \dfrac{1}{12} = \dfrac{7}{12}$$

So, $\dfrac{6}{12} + \dfrac{1}{12} = \dfrac{7}{12}$

Problem 3

To add fractions, we must first express the fractions with the same denominator.

Daniel: $\dfrac{1}{4} = \dfrac{2}{8}$

Lawrence: $\dfrac{3}{8}$

Ivy: $\dfrac{1}{8}$

Next, do the addition:

$$\dfrac{2}{8}+\dfrac{3}{8}+\dfrac{1}{8}=\dfrac{6}{8}$$

Finally, we simplify the fraction:

$$\dfrac{6\div 2}{8\div 2}=\dfrac{3}{4}$$

The children received $\dfrac{3}{4}$ of the bag of chips all together.

Problem 4

_____

To add fractions, we must first express the fractions with the same denominator.

Fraction 1: $\dfrac{1}{3}=\dfrac{3}{9}$

Fraction 2: $\dfrac{2}{9}$

Next, do the addition:

$$\dfrac{3}{9}+\dfrac{2}{9}=\dfrac{5}{9}$$

So, $\dfrac{1}{3} + \dfrac{2}{9} = \dfrac{5}{9}$

Problem 5

To add fractions, we must first express the fractions with the same denominator.

Amol: $\dfrac{1}{3} = \dfrac{3}{9}$

Maya: $\dfrac{2}{9}$

Next, do the addition:

$\dfrac{3}{9} + \dfrac{2}{9} = \dfrac{5}{9}$

They ate $\dfrac{5}{9}$ of the cake all together.

Problem 6

To add fractions, we must first express the fractions with the same denominator.

Shake: $\dfrac{1}{3} = \dfrac{3}{9}$

Salad: $\dfrac{1}{9}$

Icecream: $\dfrac{4}{9}$

Next, do the addition:

$$\dfrac{3}{9} + \dfrac{1}{9} + \dfrac{4}{9} = \dfrac{8}{9}$$

She used $\dfrac{8}{9}$ of the watermelon all together.

Problem 7

To add fractions, we must first express the fractions with the same denominator.

Ellen: $\dfrac{1}{3} = \dfrac{3}{9}$

Adrienne: $\dfrac{1}{9}$

Next, do the addition:

$$\frac{3}{9} + \frac{1}{9} = \frac{4}{9}$$

She cut $\frac{4}{9}$ of the wire all together for the two children.

Problem 8

To add fractions, we must first express the fractions with the same denominator.

Fraction 1: $\frac{1}{3} = \frac{4}{12}$

Fraction 2: $\frac{1}{12}$

Fraction 3: $\frac{3}{12}$

Next, do the addition:

$$\frac{4}{12} + \frac{1}{12} + \frac{3}{12} = \frac{8}{12}$$

Finally, we simplify the fraction:

$$\frac{8 \div 4}{12 \div 4} = \frac{2}{3}$$

So, $\dfrac{1}{3} + \dfrac{1}{12} + \dfrac{3}{12} = \dfrac{2}{3}$