How to Add Fractions?

FREE Worksheet - 5

Time: 20 minutes

(Detailed solutions at the end)

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1. Mrs. Saxena had a stick. She cut $\dfrac{1}{3}$ of the stick for Maggie and $\dfrac{1}{9}$ of the wire for Mina.

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

   Write your answer in the simplest form.

   Answer: _____

2. Mr. Miller had a bag of cookies. He gave $\dfrac{1}{5}$ of the bag of cookies to Aryan, $\dfrac{1}{10}$ of the bag of cookies to Hugh and $\dfrac{1}{10}$ of the bag of cookies to Neil.

   What fraction of the bag of cookies did the children receive altogether?

   Write your answer in the simplest form.

   Answer: _____

3. Find the sum of $\dfrac{1}{4}$ and $\dfrac{7}{12}$

Answer: _____

4. Add $\dfrac{1}{3}$ and $\dfrac{1}{6}$

Answer: _____

5. Ellen had a papaya. She used $\dfrac{1}{12}$ of it for shake,

$\dfrac{1}{12}$ of it for a salad and $\dfrac{3}{12}$ of it for an ice cream.

What fraction of the papaya did she use altogether?

Write your answer in the simplest form.

Answer: _____

6. Add $\dfrac{1}{3}$, $\dfrac{1}{4}$ and $\dfrac{1}{4}$

Answer: _____

7. Xavier and Darlene bought a chocolate bar. Xavier ate $\dfrac{1}{3}$ of the chocolate bar and Darlene ate $\dfrac{4}{9}$ of the chocolate bar.

What fraction of the chocolate bar did they eat altogether?

Write your answer in the simplest form.

Answer: _____

8. $\dfrac{1}{5} + \dfrac{1}{10} =$

Answer: _____

SOLUTIONS

Problem 1

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

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

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

Next, do the addition:

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

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

Problem 2

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

Aryan: $\dfrac{1}{5} = \dfrac{2}{10}$

Hugh: $\dfrac{1}{10}$

Neil: $\dfrac{1}{10}$

Next, do the addition:

$$\dfrac{2}{10} + \dfrac{1}{10} + \dfrac{1}{10} = \dfrac{4}{10}$$

Finally, we simplify the fraction:

$$\dfrac{4 \div 2}{10 \div 2} = \dfrac{2}{5}$$

The children received $\dfrac{2}{5}$ of the bag of cookies altogether.

Problem 3

_____

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

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

Fraction 2: $\dfrac{7}{12}$

Next, do the addition:

$$\dfrac{3}{12} + \dfrac{7}{12} = \dfrac{10}{12}$$

Finally, we simplify the fraction:

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

So, $\dfrac{1}{4} + \dfrac{7}{12} = \dfrac{5}{6}$

Problem 4

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

Fraction 1: $\dfrac{1}{3} = \dfrac{2}{6}$

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

Next, do the addition:

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

Finally, we simplify the fraction:

$$\dfrac{3 \div 3}{6 \div 3} = \dfrac{1}{2}$$

So, $\dfrac{1}{3} + \dfrac{1}{6} = \dfrac{1}{2}$

Problem 5

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

Shake: $\dfrac{1}{3} = \dfrac{4}{12}$

Salad: $\dfrac{1}{12}$

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

Next, do the addition:

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

Finally, we simplify the fraction:

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

She used $\dfrac{2}{3}$ of the papaya all together.

Problem 6

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

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

Fraction 2: $\dfrac{1}{4} = \dfrac{3}{12}$

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

Next, do the addition:

$$\dfrac{4}{12} + \dfrac{3}{12} + \dfrac{3}{12} = \dfrac{10}{12}$$

Finally, we simplify the fraction:

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

So, $\dfrac{1}{3} + \dfrac{1}{4} + \dfrac{1}{4} = \dfrac{5}{6}$

Problem 7

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

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

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

Next, do the addition:

$\dfrac{3}{9}$ + $\dfrac{4}{9}$ = $\dfrac{7}{9}$

They ate $\dfrac{7}{9}$ of the chocolate bar altogether.

Problem 8

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

Fraction 1: $\dfrac{1}{5} = \dfrac{2}{10}$

Fraction 2: $\dfrac{1}{10}$

Next, do the addition:

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

So, $\dfrac{1}{5} + \dfrac{1}{10} = \dfrac{3}{10}$