



**Add, Subtract, Multiply, and Divide
Fractions & Mixed Fractions**

Student Worksheet

1. Mica and Denise are reading the same novel. Mica has read $\frac{1}{2}$ of the novel, and Denise has read $\frac{1}{3}$ of the novel. How much more of the novel has Mica read than Denise?

A $\frac{1}{6}$

B $\frac{2}{5}$

C $\frac{3}{5}$

D $\frac{5}{6}$

2. Ms. Brown asked her students to simplify the expression below.

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

What is the simplified version of Ms. Brown's expression?

A $\frac{2}{7}$

B $\frac{3}{7}$

C $\frac{3}{12}$

D $\frac{11}{12}$

3. Nan lives $13\frac{1}{2}$ miles from the airport. Felipe lives $6\frac{1}{4}$ miles from the airport. How many more miles does Nan live from the airport than Felipe?

A $7\frac{1}{8}$

B $7\frac{1}{6}$

C $7\frac{1}{4}$

D $7\frac{1}{2}$

Answer Sheet

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Student Worksheet

1.

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

A $\frac{1}{5}$

B $\frac{1}{6}$

C $\frac{11}{24}$

D $\frac{11}{48}$

2.

What is $\frac{10}{11} \times \frac{11}{12}$?

A $\frac{5}{6}$

B $\frac{21}{23}$

C $1\frac{1}{120}$

D 2

3.

What is the product of $\frac{2}{5}$ and $\frac{4}{5}$?

A $\frac{1}{5}$

B $\frac{8}{25}$

C $\frac{1}{2}$

D $\frac{6}{5}$

Answer Sheet

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Student Worksheet

1.

$$\frac{7}{9} \times \frac{2}{9} =$$

A $\frac{9}{81}$

B $\frac{14}{81}$

C $\frac{9}{9}$

D $\frac{14}{9}$

2. At a sporting goods store, $\frac{3}{10}$ of all the items are baseball items and $\frac{1}{3}$ of all the items are football items. What fraction of the total number of items in the store are baseball or football items?

A $\frac{19}{30}$

B $\frac{4}{13}$

C $\frac{4}{30}$

D $\frac{3}{13}$

3. A sixth-grade class completed a survey about favorite foods. Of the students in the class, $\frac{2}{6}$ chose hamburgers, and $\frac{3}{8}$ chose pizza. What fraction of the class chose either hamburgers or pizza as the favorite food?

A $\frac{1}{24}$

B $\frac{6}{48}$

C $\frac{5}{14}$

D $\frac{17}{24}$

Answer Sheet

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$$\frac{7}{9} \times \frac{2}{9} =$$

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C $\frac{9}{9}$

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B $\frac{6}{48}$

C $\frac{5}{14}$

D $\frac{17}{24}$

Student Worksheet

Multiply and Reduce Fractions (A)

Multiply and reduce each product if necessary.

$$\textcircled{1.} \quad \frac{10}{12} \times \frac{4}{10} =$$

$$\textcircled{7.} \quad \frac{2}{12} \times \frac{11}{12} =$$

$$\textcircled{2.} \quad \frac{12}{13} \times \frac{1}{4} =$$

$$\textcircled{8.} \quad \frac{4}{13} \times \frac{1}{2} =$$

$$\textcircled{3.} \quad \frac{6}{10} \times \frac{5}{12} =$$

$$\textcircled{9.} \quad \frac{1}{2} \times \frac{4}{6} =$$

$$\textcircled{4.} \quad \frac{3}{6} \times \frac{1}{2} =$$

$$\textcircled{10.} \quad \frac{6}{7} \times \frac{2}{5} =$$

$$\textcircled{5.} \quad \frac{12}{13} \times \frac{2}{7} =$$

$$\textcircled{11.} \quad \frac{4}{12} \times \frac{9}{10} =$$

$$\textcircled{6.} \quad \frac{1}{3} \times \frac{1}{2} =$$

$$\textcircled{12.} \quad \frac{2}{10} \times \frac{10}{14} =$$

Answer Sheet

Multiply and Reduce Fractions (A) Answers

Multiply and reduce each product if necessary.

$$\textcircled{1.} \frac{10}{12} \times \frac{4}{10} = \frac{40}{120} = \frac{1}{3}$$

$$\textcircled{7.} \frac{2}{12} \times \frac{11}{12} = \frac{22}{144} = \frac{11}{72}$$

$$\textcircled{2.} \frac{12}{13} \times \frac{1}{4} = \frac{12}{52} = \frac{3}{13}$$

$$\textcircled{8.} \frac{4}{13} \times \frac{1}{2} = \frac{4}{26} = \frac{2}{13}$$

$$\textcircled{3.} \frac{6}{10} \times \frac{5}{12} = \frac{30}{120} = \frac{1}{4}$$

$$\textcircled{9.} \frac{1}{2} \times \frac{4}{6} = \frac{4}{12} = \frac{1}{3}$$

$$\textcircled{4.} \frac{3}{6} \times \frac{1}{2} = \frac{3}{12} = \frac{1}{4}$$

$$\textcircled{10.} \frac{6}{7} \times \frac{2}{5} = \frac{12}{35}$$

$$\textcircled{5.} \frac{12}{13} \times \frac{2}{7} = \frac{24}{91}$$

$$\textcircled{11.} \frac{4}{12} \times \frac{9}{10} = \frac{36}{120} = \frac{3}{10}$$

$$\textcircled{6.} \frac{1}{3} \times \frac{1}{2} = \frac{1}{6}$$

$$\textcircled{12.} \frac{2}{10} \times \frac{10}{14} = \frac{20}{140} = \frac{1}{7}$$

Student Worksheet

Dividing Fractions to Sixths (A)

$$1. \frac{1}{3} \div \frac{3}{5} =$$

$$6. \frac{4}{5} \div \frac{1}{2} =$$

$$2. \frac{1}{2} \div \frac{1}{6} =$$

$$7. \frac{2}{5} \div \frac{2}{4} =$$

$$3. \frac{1}{2} \div \frac{3}{5} =$$

$$8. \frac{1}{2} \div \frac{2}{6} =$$

$$4. \frac{1}{4} \div \frac{3}{6} =$$

$$9. \frac{5}{6} \div \frac{1}{3} =$$

$$5. \frac{1}{2} \div \frac{3}{5} =$$

$$10. \frac{2}{3} \div \frac{1}{2} =$$

Answer Sheet

Dividing Fractions to Sixths (A) Answers

$$1. \frac{1}{3} \div \frac{3}{5} = \frac{5}{9}$$

$$6. \frac{4}{5} \div \frac{1}{2} = 1 \frac{3}{5}$$

$$2. \frac{1}{2} \div \frac{1}{6} = 3$$

$$7. \frac{2}{5} \div \frac{2}{4} = \frac{4}{5}$$

$$3. \frac{1}{2} \div \frac{3}{5} = \frac{5}{6}$$

$$8. \frac{1}{2} \div \frac{2}{6} = 1 \frac{1}{2}$$

$$4. \frac{1}{4} \div \frac{3}{6} = \frac{1}{2}$$

$$9. \frac{5}{6} \div \frac{1}{3} = 2 \frac{1}{2}$$

$$5. \frac{1}{2} \div \frac{3}{5} = \frac{5}{6}$$

$$10. \frac{2}{3} \div \frac{1}{2} = 1 \frac{1}{3}$$

Student Worksheet

Add Fractions (C)

Find equivalent fractions using the least common denominator (LCD).

Add.

Change to a mixed number if necessary.

Reduce the fraction if necessary.

$$\frac{6}{9} + \frac{1}{2} = \frac{12}{18} + \frac{9}{18} = \frac{21}{18} = 1 \frac{3}{18} = 1 \frac{1}{6}$$

LCD: 18

1. $\frac{8}{12} + \frac{2}{4} =$

2. $\frac{2}{9} + \frac{1}{9} =$

3. $\frac{5}{6} + \frac{4}{12} =$

4. $\frac{6}{10} + \frac{5}{8} =$

5. $\frac{1}{3} + \frac{7}{10} =$

6. $\frac{1}{9} + \frac{2}{8} =$

7. $\frac{1}{3} + \frac{3}{4} =$

8. $\frac{3}{4} + \frac{2}{6} =$

9. $\frac{5}{7} + \frac{5}{11} =$

Answer Sheet

Add Fractions (C) Answers

Note to teacher: To be successful on this worksheet, students need to know how to find least common denominators/multiples, how to find equivalent fractions, how to change improper fractions to mixed numbers, and how to reduce fractions and mixed numbers to lowest terms. This worksheet includes all of those skills with easy fractions (e.g. all of the fractions are proper fractions with integers 12 and under).

			Equivalent		Sum		Mixed		Reduced
1.	$\frac{8}{12} + \frac{2}{4} =$	$\frac{8}{12} + \frac{6}{12} =$	$\frac{14}{12} =$	$1 \frac{2}{12} =$	$1 \frac{1}{6}$				
2.	$\frac{2}{9} + \frac{1}{9} =$	$\frac{2}{9} + \frac{1}{9} =$	$\frac{3}{9} =$	$\frac{3}{9} =$	$\frac{1}{3}$				
3.	$\frac{5}{6} + \frac{4}{12} =$	$\frac{10}{12} + \frac{4}{12} =$	$\frac{14}{12} =$	$1 \frac{2}{12} =$	$1 \frac{1}{6}$				
4.	$\frac{6}{10} + \frac{5}{8} =$	$\frac{24}{40} + \frac{25}{40} =$	$\frac{49}{40} =$	$1 \frac{9}{40} =$	$1 \frac{9}{40}$				
5.	$\frac{1}{3} + \frac{7}{10} =$	$\frac{10}{30} + \frac{21}{30} =$	$\frac{31}{30} =$	$1 \frac{1}{30} =$	$1 \frac{1}{30}$				
6.	$\frac{1}{9} + \frac{2}{8} =$	$\frac{8}{72} + \frac{18}{72} =$	$\frac{26}{72} =$	$\frac{26}{72} =$	$\frac{13}{36}$				
7.	$\frac{1}{3} + \frac{3}{4} =$	$\frac{4}{12} + \frac{9}{12} =$	$\frac{13}{12} =$	$1 \frac{1}{12} =$	$1 \frac{1}{12}$				
8.	$\frac{3}{4} + \frac{2}{6} =$	$\frac{9}{12} + \frac{4}{12} =$	$\frac{13}{12} =$	$1 \frac{1}{12} =$	$1 \frac{1}{12}$				
9.	$\frac{5}{7} + \frac{5}{11} =$	$\frac{55}{77} + \frac{35}{77} =$	$\frac{90}{77} =$	$1 \frac{13}{77} =$	$1 \frac{13}{77}$				