

## Multiplying and Dividing Fractions (A)

Find the value of each expression in lowest terms.

1.  $\frac{1}{2} \times \frac{5}{4}$

6.  $\frac{1}{4} \times \frac{5}{3}$

11.  $\frac{10}{3} \times \frac{11}{6}$

2.  $\frac{1}{6} \div \frac{8}{11}$

7.  $\frac{11}{2} \div \frac{1}{2}$

12.  $\frac{1}{2} \div \frac{1}{2}$

3.  $\frac{1}{3} \div \frac{13}{9}$

8.  $\frac{4}{3} \div \frac{11}{12}$

13.  $\frac{14}{9} \times \frac{7}{10}$

4.  $\frac{13}{4} \div \frac{1}{2}$

9.  $\frac{1}{3} \times \frac{20}{9}$

14.  $\frac{15}{8} \times \frac{7}{6}$

5.  $\frac{17}{6} \div \frac{3}{5}$

10.  $\frac{13}{7} \times \frac{14}{11}$

15.  $\frac{3}{2} \div \frac{4}{9}$

## Multiplying and Dividing Fractions (A) Answers

Find the value of each expression in lowest terms.

$$1. \frac{1}{2} \times \frac{5}{4} \\ = \frac{5}{8}$$

$$6. \frac{1}{4} \times \frac{5}{3} \\ = \frac{5}{12}$$

$$11. \frac{10}{3} \times \frac{11}{6} \\ = \frac{55}{9} = 6\frac{1}{9}$$

$$2. \frac{1}{6} \div \frac{8}{11} \\ = \frac{11}{48}$$

$$7. \frac{11}{2} \div \frac{1}{2} \\ = 11$$

$$12. \frac{1}{2} \div \frac{1}{2} \\ = 1$$

$$3. \frac{1}{3} \div \frac{13}{9} \\ = \frac{3}{13}$$

$$8. \frac{4}{3} \div \frac{11}{12} \\ = \frac{16}{11} = 1\frac{5}{11}$$

$$13. \frac{14}{9} \times \frac{7}{10} \\ = \frac{49}{45} = 1\frac{4}{45}$$

$$4. \frac{13}{4} \div \frac{1}{2} \\ = \frac{13}{2} = 6\frac{1}{2}$$

$$9. \frac{1}{3} \times \frac{20}{9} \\ = \frac{20}{27}$$

$$14. \frac{15}{8} \times \frac{7}{6} \\ = \frac{35}{16} = 2\frac{3}{16}$$

$$5. \frac{17}{6} \div \frac{3}{5} \\ = \frac{85}{18} = 4\frac{13}{18}$$

$$10. \frac{13}{7} \times \frac{14}{11} \\ = \frac{26}{11} = 2\frac{4}{11}$$

$$15. \frac{3}{2} \div \frac{4}{9} \\ = \frac{27}{8} = 3\frac{3}{8}$$

## Adding and Subtracting Mixed Fractions (A)

Find the value of each expression in lowest terms.

1.  $2\frac{1}{5} + 1\frac{3}{4}$

5.  $1\frac{1}{2} + 2\frac{3}{5}$

9.  $3\frac{1}{2} - 1\frac{1}{2}$

2.  $3\frac{1}{2} - 2\frac{2}{3}$

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

10.  $5\frac{1}{2} + 5\frac{1}{4}$

3.  $3\frac{1}{2} - 3\frac{1}{2}$

7.  $2\frac{3}{4} + 1\frac{1}{5}$

11.  $1\frac{10}{11} - 1\frac{1}{3}$

4.  $5\frac{3}{4} - 5\frac{1}{4}$

8.  $3\frac{1}{4} - 2\frac{3}{8}$

12.  $1\frac{5}{12} + 3\frac{1}{3}$

## Adding and Subtracting Mixed Fractions (A) Answers

Find the value of each expression in lowest terms.

$$\begin{aligned} 1. \quad & 2\frac{1}{5} + 1\frac{3}{4} \\ & = \frac{79}{20} = 3\frac{19}{20} \end{aligned}$$

$$\begin{aligned} 5. \quad & 1\frac{1}{2} + 2\frac{3}{5} \\ & = \frac{41}{10} = 4\frac{1}{10} \end{aligned}$$

$$\begin{aligned} 9. \quad & 3\frac{1}{2} - 1\frac{1}{2} \\ & = 2 \end{aligned}$$

$$\begin{aligned} 2. \quad & 3\frac{1}{2} - 2\frac{2}{3} \\ & = \frac{5}{6} \end{aligned}$$

$$\begin{aligned} 6. \quad & 3\frac{1}{2} - 2\frac{5}{9} \\ & = \frac{17}{18} \end{aligned}$$

$$\begin{aligned} 10. \quad & 5\frac{1}{2} + 5\frac{1}{4} \\ & = \frac{43}{4} = 10\frac{3}{4} \end{aligned}$$

$$\begin{aligned} 3. \quad & 3\frac{1}{2} - 3\frac{1}{2} \\ & = 0 \end{aligned}$$

$$\begin{aligned} 7. \quad & 2\frac{3}{4} + 1\frac{1}{5} \\ & = \frac{79}{20} = 3\frac{19}{20} \end{aligned}$$

$$\begin{aligned} 11. \quad & 1\frac{10}{11} - 1\frac{1}{3} \\ & = \frac{19}{33} \end{aligned}$$

$$\begin{aligned} 4. \quad & 5\frac{3}{4} - 5\frac{1}{4} \\ & = \frac{1}{2} \end{aligned}$$

$$\begin{aligned} 8. \quad & 3\frac{1}{4} - 2\frac{3}{8} \\ & = \frac{7}{8} \end{aligned}$$

$$\begin{aligned} 12. \quad & 1\frac{5}{12} + 3\frac{1}{3} \\ & = \frac{19}{4} = 4\frac{3}{4} \end{aligned}$$

## Multiplying and Dividing Fractions (A)

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12.  $\frac{1}{2} \div \frac{1}{2}$

3.  $\frac{1}{3} \div \frac{13}{9}$

8.  $\frac{4}{3} \div \frac{11}{12}$

13.  $\frac{14}{9} \times \frac{7}{10}$

4.  $\frac{13}{4} \div \frac{1}{2}$

9.  $\frac{1}{3} \times \frac{20}{9}$

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## Multiplying and Dividing Fractions (A) Answers

Find the value of each expression in lowest terms.

$$1. \frac{1}{2} \times \frac{5}{4} \\ = \frac{5}{8}$$

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$$11. \frac{10}{3} \times \frac{11}{6} \\ = \frac{55}{9} = 6\frac{1}{9}$$

$$2. \frac{1}{6} \div \frac{8}{11} \\ = \frac{11}{48}$$

$$7. \frac{11}{2} \div \frac{1}{2} \\ = 11$$

$$12. \frac{1}{2} \div \frac{1}{2} \\ = 1$$

$$3. \frac{1}{3} \div \frac{13}{9} \\ = \frac{3}{13}$$

$$8. \frac{4}{3} \div \frac{11}{12} \\ = \frac{16}{11} = 1\frac{5}{11}$$

$$13. \frac{14}{9} \times \frac{7}{10} \\ = \frac{49}{45} = 1\frac{4}{45}$$

$$4. \frac{13}{4} \div \frac{1}{2} \\ = \frac{13}{2} = 6\frac{1}{2}$$

$$9. \frac{1}{3} \times \frac{20}{9} \\ = \frac{20}{27}$$

$$14. \frac{15}{8} \times \frac{7}{6} \\ = \frac{35}{16} = 2\frac{3}{16}$$

$$5. \frac{17}{6} \div \frac{3}{5} \\ = \frac{85}{18} = 4\frac{13}{18}$$

$$10. \frac{13}{7} \times \frac{14}{11} \\ = \frac{26}{11} = 2\frac{4}{11}$$

$$15. \frac{3}{2} \div \frac{4}{9} \\ = \frac{27}{8} = 3\frac{3}{8}$$

## Equivalent Fractions (A)

Instructions: Find the missing numbers in the equivalent fractions below.

$$\frac{2}{\square} = \frac{8}{20}$$

$$\frac{5}{7} = \frac{15}{\square}$$

$$\frac{\square}{8} = \frac{4}{32}$$

$$\frac{4}{12} = \frac{12}{\square}$$

$$\frac{8}{10} = \frac{32}{\square}$$

$$\frac{3}{10} = \frac{12}{\square}$$

$$\frac{1}{\square} = \frac{2}{18}$$

$$\frac{\square}{4} = \frac{2}{8}$$

$$\frac{1}{\square} = \frac{4}{8}$$

$$\frac{4}{\square} = \frac{16}{24}$$

$$\frac{\square}{10} = \frac{20}{40}$$

$$\frac{5}{6} = \frac{20}{\square}$$

$$\frac{1}{4} = \frac{\square}{8}$$

$$\frac{5}{8} = \frac{15}{\square}$$

$$\frac{1}{7} = \frac{\square}{21}$$

$$\frac{\square}{9} = \frac{12}{27}$$

$$\frac{1}{\square} = \frac{4}{24}$$

$$\frac{1}{3} = \frac{5}{\square}$$

$$\frac{3}{7} = \frac{12}{\square}$$

$$\frac{\square}{3} = \frac{3}{9}$$

$$\frac{7}{12} = \frac{\square}{60}$$

$$\frac{1}{5} = \frac{2}{\square}$$

$$\frac{2}{9} = \frac{8}{\square}$$

$$\frac{2}{4} = \frac{10}{\square}$$

## Equivalent Fractions (A) Answers

Instructions: Find the missing numbers in the equivalent fractions below.

$$\frac{2}{5} = \frac{8}{20}$$

4 ×

$$\frac{5}{7} = \frac{15}{21}$$

3 ×

$$\frac{1}{8} = \frac{4}{32}$$

4 ×

$$\frac{4}{12} = \frac{12}{36}$$

3 ×

$$\frac{8}{10} = \frac{32}{40}$$

4 ×

$$\frac{3}{10} = \frac{12}{40}$$

4 ×

$$\frac{1}{9} = \frac{2}{18}$$

2 ×

$$\frac{1}{4} = \frac{2}{8}$$

2 ×

$$\frac{1}{2} = \frac{4}{8}$$

4 ×

$$\frac{4}{6} = \frac{16}{24}$$

4 ×

$$\frac{5}{10} = \frac{20}{40}$$

4 ×

$$\frac{5}{6} = \frac{20}{24}$$

4 ×

$$\frac{1}{4} = \frac{2}{8}$$

2 ×

$$\frac{5}{8} = \frac{15}{24}$$

3 ×

$$\frac{1}{7} = \frac{3}{21}$$

3 ×

$$\frac{4}{9} = \frac{12}{27}$$

3 ×

$$\frac{1}{6} = \frac{4}{24}$$

4 ×

$$\frac{1}{3} = \frac{5}{15}$$

5 ×

$$\frac{3}{7} = \frac{12}{28}$$

4 ×

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

3 ×

$$\frac{7}{12} = \frac{35}{60}$$

5 ×

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

2 ×

$$\frac{2}{9} = \frac{8}{36}$$

4 ×

$$\frac{2}{4} = \frac{10}{20}$$

5 ×



## Converting Fractions (A)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each mixed fraction to an improper fraction.

$9\frac{1}{9} = \text{---}$

$3\frac{8}{9} = \text{---}$

$8\frac{7}{12} = \text{---}$

$7\frac{7}{9} = \text{---}$

$3\frac{11}{15} = \text{---}$

$3\frac{2}{5} = \text{---}$

$4\frac{2}{7} = \text{---}$

$7\frac{1}{3} = \text{---}$

$5\frac{1}{7} = \text{---}$

$2\frac{7}{10} = \text{---}$

$3\frac{4}{5} = \text{---}$

$4\frac{5}{7} = \text{---}$

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

$6\frac{1}{8} = \text{---}$

$5\frac{5}{6} = \text{---}$

$7\frac{4}{15} = \text{---}$

$4\frac{2}{9} = \text{---}$

$9\frac{1}{6} = \text{---}$

$7\frac{5}{8} = \text{---}$

$1\frac{5}{9} = \text{---}$

$6\frac{4}{7} = \text{---}$

$8\frac{7}{15} = \text{---}$

$6\frac{1}{5} = \text{---}$

$8\frac{1}{12} = \text{---}$

$8\frac{1}{15} = \text{---}$

$7\frac{5}{12} = \text{---}$

$1\frac{3}{10} = \text{---}$

$6\frac{8}{15} = \text{---}$

$1\frac{9}{10} = \text{---}$

$4\frac{6}{7} = \text{---}$

$1\frac{1}{4} = \text{---}$

$1\frac{11}{12} = \text{---}$

$3\frac{4}{9} = \text{---}$

$3\frac{1}{10} = \text{---}$

$2\frac{1}{2} = \text{---}$

$4\frac{3}{5} = \text{---}$

$4\frac{7}{8} = \text{---}$

$6\frac{2}{15} = \text{---}$

$5\frac{3}{4} = \text{---}$

$5\frac{3}{7} = \text{---}$

## Converting Fractions (A) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each mixed fraction to an improper fraction.

$$9\frac{1}{9} = \frac{82}{9}$$

$$3\frac{8}{9} = \frac{35}{9}$$

$$8\frac{7}{12} = \frac{103}{12}$$

$$7\frac{7}{9} = \frac{70}{9}$$

$$3\frac{11}{15} = \frac{56}{15}$$

$$3\frac{2}{5} = \frac{17}{5}$$

$$4\frac{2}{7} = \frac{30}{7}$$

$$7\frac{1}{3} = \frac{22}{3}$$

$$5\frac{1}{7} = \frac{36}{7}$$

$$2\frac{7}{10} = \frac{27}{10}$$

$$3\frac{4}{5} = \frac{19}{5}$$

$$4\frac{5}{7} = \frac{33}{7}$$

$$3\frac{3}{8} = \frac{27}{8}$$

$$6\frac{1}{8} = \frac{49}{8}$$

$$5\frac{5}{6} = \frac{35}{6}$$

$$7\frac{4}{15} = \frac{109}{15}$$

$$4\frac{2}{9} = \frac{38}{9}$$

$$9\frac{1}{6} = \frac{55}{6}$$

$$7\frac{5}{8} = \frac{61}{8}$$

$$1\frac{5}{9} = \frac{14}{9}$$

$$6\frac{4}{7} = \frac{46}{7}$$

$$8\frac{7}{15} = \frac{127}{15}$$

$$6\frac{1}{5} = \frac{31}{5}$$

$$8\frac{1}{12} = \frac{97}{12}$$

$$8\frac{1}{15} = \frac{121}{15}$$

$$7\frac{5}{12} = \frac{89}{12}$$

$$1\frac{3}{10} = \frac{13}{10}$$

$$6\frac{8}{15} = \frac{98}{15}$$

$$1\frac{9}{10} = \frac{19}{10}$$

$$4\frac{6}{7} = \frac{34}{7}$$

$$1\frac{1}{4} = \frac{5}{4}$$

$$1\frac{11}{12} = \frac{23}{12}$$

$$3\frac{4}{9} = \frac{31}{9}$$

$$3\frac{1}{10} = \frac{31}{10}$$

$$2\frac{1}{2} = \frac{5}{2}$$

$$4\frac{3}{5} = \frac{23}{5}$$

$$4\frac{7}{8} = \frac{39}{8}$$

$$6\frac{2}{15} = \frac{92}{15}$$

$$5\frac{3}{4} = \frac{23}{4}$$

$$5\frac{3}{7} = \frac{38}{7}$$

# Converting Percents (A)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Fill in the missing values. Use part-to-**whole** ratios.

	Fraction	Decimal	Percent	Ratio
1.			87.5%	
2.			70%	
3.			20%	
4.			25%	
5.			50%	
6.			12.5%	
7.			36%	
8.			80%	
9.			10%	
10.			75%	

## Converting Percents (A) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Fill in the missing values. Use part-to-**whole** ratios.

	Fraction	Decimal	Percent	Ratio
1.	$\frac{7}{8}$	0.875	87.5%	7 : 8
2.	$\frac{7}{10}$	0.7	70%	7 : 10
3.	$\frac{1}{5}$	0.2	20%	1 : 5
4.	$\frac{1}{4}$	0.25	25%	1 : 4
5.	$\frac{1}{2}$	0.5	50%	1 : 2
6.	$\frac{1}{8}$	0.125	12.5%	1 : 8
7.	$\frac{9}{25}$	0.36	36%	9 : 25
8.	$\frac{4}{5}$	0.8	80%	4 : 5
9.	$\frac{1}{10}$	0.1	10%	1 : 10
10.	$\frac{3}{4}$	0.75	75%	3 : 4

## Equivalent Ratios (A)

Fill in the blanks to make equivalent ratios.

1.  $24 : 56 = 3 : \underline{\quad}$

2.  $44 : 20 = \underline{\quad} : 5$

3.  $40 : 25 = 8 : \underline{\quad}$

4.  $4 : \underline{\quad} = 20 : 15$

5.  $5 : 9 = \underline{\quad} : 72$

6.  $\underline{\quad} : 8 = 5 : 2$

7.  $\underline{\quad} : 9 = 21 : 27$

8.  $\underline{\quad} : 9 = 8 : 72$

9.  $6 : 1 = 12 : \underline{\quad}$

10.  $49 : \underline{\quad} = 7 : 12$

11.  $\underline{\quad} : 5 = 72 : 30$

12.  $5 : \underline{\quad} = 1 : 7$

13.  $5 : \underline{\quad} = 20 : 16$

14.  $2 : 9 = 12 : \underline{\quad}$

15.  $\underline{\quad} : 1 = 30 : 3$

16.  $\underline{\quad} : 5 = 21 : 35$

17.  $21 : \underline{\quad} = 7 : 2$

18.  $\underline{\quad} : 1 = 35 : 7$

19.  $5 : \underline{\quad} = 35 : 42$

20.  $55 : 60 = \underline{\quad} : 12$

## Equivalent Ratios (A) Answers

Fill in the blanks to make equivalent ratios.

1.  $24 : 56 = 3 : \underline{7}$

2.  $44 : 20 = \underline{11} : 5$

3.  $40 : 25 = 8 : \underline{5}$

4.  $4 : \underline{3} = 20 : 15$

5.  $5 : 9 = \underline{40} : 72$

6.  $\underline{20} : 8 = 5 : 2$

7.  $\underline{7} : 9 = 21 : 27$

8.  $\underline{1} : 9 = 8 : 72$

9.  $6 : 1 = 12 : \underline{2}$

10.  $49 : \underline{84} = 7 : 12$

11.  $\underline{12} : 5 = 72 : 30$

12.  $5 : \underline{35} = 1 : 7$

13.  $5 : \underline{4} = 20 : 16$

14.  $2 : 9 = 12 : \underline{54}$

15.  $\underline{10} : 1 = 30 : 3$

16.  $\underline{3} : 5 = 21 : 35$

17.  $21 : \underline{6} = 7 : 2$

18.  $\underline{5} : 1 = 35 : 7$

19.  $5 : \underline{6} = 35 : 42$

20.  $55 : 60 = \underline{11} : 12$

# Converting Fractions (A)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Fill in the missing values. Use part-to-**part** ratios.

	Fraction	Decimal	Percent	Ratio
1.	$\frac{7}{10}$			
2.	$\frac{1}{5}$			
3.	$\frac{1}{2}$			
4.	$\frac{5}{8}$			
5.	$\frac{1}{8}$			
6.	$\frac{4}{5}$			
7.	$\frac{11}{20}$			
8.	$\frac{1}{4}$			
9.	$\frac{3}{4}$			
10.	$\frac{1}{10}$			

## Converting Fractions (A) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Fill in the missing values. Use part-to-**part** ratios.

	Fraction	Decimal	Percent	Ratio
1.	$\frac{7}{10}$	0.7	70%	7 : 3
2.	$\frac{1}{5}$	0.2	20%	1 : 4
3.	$\frac{1}{2}$	0.5	50%	1 : 1
4.	$\frac{5}{8}$	0.625	62.5%	5 : 3
5.	$\frac{1}{8}$	0.125	12.5%	1 : 7
6.	$\frac{4}{5}$	0.8	80%	4 : 1
7.	$\frac{11}{20}$	0.55	55%	11 : 9
8.	$\frac{1}{4}$	0.25	25%	1 : 3
9.	$\frac{3}{4}$	0.75	75%	3 : 1
10.	$\frac{1}{10}$	0.1	10%	1 : 9