

## Short Division Practice Worksheet

1.

2		4	1				

2.

8		2	5	7			

3.

9		3	9	9			

4.

5		2	1	4			

5.

7		5	4	5			

6.

9		8	6	7			

7.

5		4	3	3			

8.

5		1	3	7			

9.

7		4	3	9			

10.

8		4	8	9			

11.

1	1		3	4	2		

12.

1	2		2	9	8		

# Missing Numbers 6-Digit Addition (1)

Calculate the missing digits in these calculations.

1.

$$\begin{array}{r} 1 \square 7 \square 2 6 \\ + \quad 1 1 6 \square \square \\ \hline 1 8 9 3 8 6 \end{array}$$

2.

$$\begin{array}{r} 8 8 \square 5 3 \square \\ + \quad \square 5 \square 6 4 \\ \hline 9 7 7 3 0 1 \end{array}$$

3.

$$\begin{array}{r} 1 3 \square 1 4 \square \\ + \quad \square 6 5 \square 7 \\ \hline 1 5 6 7 1 5 \end{array}$$

4.

$$\begin{array}{r} 4 \square 8 \square 2 8 \\ + \quad 1 7 6 \square \square \\ \hline 4 2 6 2 4 2 \end{array}$$

5.

$$\begin{array}{r} 7 0 \square \square 5 0 \\ + \quad \square 7 5 9 \square \\ \hline 7 9 0 3 4 7 \end{array}$$

6.

$$\begin{array}{r} 5 \square 4 3 \square 5 \\ + \quad 9 \square \square 8 2 \\ \hline 6 6 2 7 6 7 \end{array}$$

7.

$$\begin{array}{r} 3 8 4 \square 5 \square \\ + \quad \square \square 9 3 1 \\ \hline 4 5 9 6 8 8 \end{array}$$

8.

$$\begin{array}{r} 8 4 \square 3 \square 5 \\ + \quad \square \square 7 8 4 \\ \hline 8 8 8 1 7 9 \end{array}$$

9.

$$\begin{array}{r} 6 \square 8 2 \square 6 \\ + \quad 1 \square \square 0 2 \\ \hline 6 9 9 6 7 8 \end{array}$$

10.

$$\begin{array}{r} \square 2 2 2 5 \square \\ + \quad 5 \square \square 6 3 \\ \hline 3 7 4 1 2 2 \end{array}$$

11.

$$\begin{array}{r} \square 0 5 4 4 \square \\ + \quad \square 1 \square 7 1 \\ \hline 7 9 6 9 1 3 \end{array}$$

12.

$$\begin{array}{r} 1 5 8 \square \square 2 \\ + \quad \square \square 6 4 5 \\ \hline 2 5 6 5 3 7 \end{array}$$

13.

$$\begin{array}{r} 3 5 \square 9 2 \square \\ + \quad \square 4 5 \square 6 \\ \hline 4 2 3 5 0 7 \end{array}$$

14.

$$\begin{array}{r} \square 5 6 1 \square 5 \\ + \quad 1 \square 0 1 \square \\ \hline 2 6 9 1 4 6 \end{array}$$

15.

$$\begin{array}{r} 7 2 6 1 \square \square \\ + \quad \square 2 \square 2 5 \\ \hline 7 6 8 7 9 3 \end{array}$$

## Subtraction With 6-Digit Numbers

$$\begin{array}{r} 1. \quad 743421 \\ - 139234 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 524132 \\ - 231210 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 852132 \\ - 714011 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 326531 \\ - 183410 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 531485 \\ - 326712 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 416581 \\ - 132623 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 858913 \\ - 331575 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 293114 \\ - 130723 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 255921 \\ - 120614 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 917890 \\ - 588161 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 736471 \\ - 643342 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 716743 \\ - 622102 \\ \hline \end{array}$$

## MULTIPLYING FRACTIONS SHEET 2



Multiply these fractions together, giving your answer as a mixed number where appropriate. Your answer does not have to be in simplest form.

Examples  $\frac{8}{3} \times \frac{4}{5} = \frac{32}{15} = 2 \frac{2}{15}$       $\frac{4}{7} \times 5 = \frac{20}{7} = 2 \frac{6}{7}$

1)  $\frac{1}{3} \times 8 = \underline{\hspace{2cm}}$      2)  $\frac{2}{5} \times \frac{1}{6} = \underline{\hspace{2cm}}$      3)  $\frac{5}{2} \times \frac{3}{4} = \underline{\hspace{2cm}}$

4)  $\frac{4}{7} \times 6 = \underline{\hspace{2cm}}$      5)  $\frac{5}{8} \times \frac{1}{4} = \underline{\hspace{2cm}}$      6)  $\frac{2}{9} \times 7 = \underline{\hspace{2cm}}$

7)  $\frac{9}{4} \times \frac{4}{7} = \underline{\hspace{2cm}}$      8)  $6 \times \frac{3}{11} = \underline{\hspace{2cm}}$      9)  $\frac{5}{7} \times \frac{3}{4} = \underline{\hspace{2cm}}$

10)  $\frac{11}{8} \times \frac{2}{3} = \underline{\hspace{2cm}}$      11)  $\frac{6}{15} \times \frac{4}{3} = \underline{\hspace{2cm}}$      12)  $11 \times \frac{4}{5} = \underline{\hspace{2cm}}$

13)  $\frac{10}{7} \times \frac{3}{8} = \underline{\hspace{2cm}}$      14)  $\frac{2}{9} \times \frac{7}{3} = \underline{\hspace{2cm}}$      15)  $\frac{12}{5} \times \frac{3}{11} = \underline{\hspace{2cm}}$

16)  $\frac{7}{8} \times 9 = \underline{\hspace{2cm}}$      17)  $\frac{2}{15} \times \frac{9}{4} = \underline{\hspace{2cm}}$      18)  $9 \times \frac{7}{11} = \underline{\hspace{2cm}}$

19)  $\frac{3}{10} \times \frac{9}{5} = \underline{\hspace{2cm}}$      20)  $\frac{6}{13} \times 12 = \underline{\hspace{2cm}}$      21)  $\frac{8}{3} \times \frac{4}{9} = \underline{\hspace{2cm}}$

22)  $\frac{12}{5} \times \frac{2}{9} = \underline{\hspace{2cm}}$      23)  $\frac{8}{3} \times \frac{4}{11} = \underline{\hspace{2cm}}$      24)  $\frac{6}{5} \times \frac{8}{7} = \underline{\hspace{2cm}}$

## MULTIPLYING FRACTIONS BY AN INTEGER SHEET 2



Multiply these fractions, leaving your answer as a mixed number where appropriate. Your answer does **not** need to be in simplest form.

Example  $\frac{3}{7} \times 8 = \frac{3 \times 8}{7} = \frac{24}{7} = 3 \frac{3}{7}$



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

2)  $\frac{1}{5} \times 4 =$

3)  $9 \times \frac{2}{5} =$

4)  $\frac{3}{4}$  of 6 =

5)  $\frac{2}{9} \times 5 =$

6)  $\frac{4}{5} \times 4 =$

7)  $5 \times \frac{3}{8} =$

8)  $8 \times \frac{2}{3} =$

9)  $6 \times \frac{2}{7} =$

10)  $\frac{5}{8}$  of 4 =

11)  $\frac{3}{10} \times 7 =$

12)  $3 \times \frac{7}{9} =$

13)  $9 \times \frac{5}{11} =$

14)  $7 \times \frac{4}{7} =$

15)  $\frac{3}{8} \times 5 =$

16)  $\frac{9}{10} \times 11 =$

17)  $\frac{2}{11}$  of 20 =

18)  $8 \times \frac{5}{12} =$

19)  $9 \times \frac{7}{20} =$

20)  $\frac{3}{7} \times 12 =$

21)  $7 \times \frac{8}{9} =$

22)  $10 \times \frac{6}{15} =$

23)  $\frac{9}{11} \times 9 =$

24)  $10 \times \frac{7}{12} =$

# DIVIDING FRACTIONS SHEET 1



To divide two fractions, follow these two simple steps:

- invert the divisor fraction (swap the numerator and denominator of the second fraction) and change the division operator to a multiplication operator.
- multiply the two fractions together.



Example  $\frac{3}{4} \div \frac{2}{7} = \frac{3}{4} \times \frac{7}{2} = \frac{21}{8}$

Work out these fraction divisions. Your answer can be left as an improper fraction and does not need to be in simplest form.

1)  $\frac{2}{3} \div \frac{1}{2} = \frac{2}{3} \times \text{---} = \text{---}$       2)  $\frac{3}{4} \div \frac{1}{3} = \frac{3}{4} \times \text{---} = \text{---}$

3)  $\frac{1}{5} \div \frac{1}{3} = \frac{1}{5} \times \text{---} = \text{---}$       4)  $\frac{2}{5} \div \frac{2}{3} = \text{---} \times \text{---} = \text{---}$

5)  $\frac{3}{8} \div \frac{2}{5} = \text{---} \times \text{---} = \text{---}$       6)  $\frac{1}{7} \div \frac{4}{9} = \text{---} \times \text{---} = \text{---}$

7)  $\frac{3}{8} \div \frac{2}{9} = \text{---} \times \text{---} = \text{---}$       8)  $\frac{4}{5} \div \frac{1}{7} = \text{---} \times \text{---} = \text{---}$

9)  $\frac{4}{9} \div \frac{3}{10} = \text{---} \times \text{---} = \text{---}$       10)  $\frac{5}{12} \div \frac{3}{7} = \text{---} \times \text{---} = \text{---}$

11)  $\frac{2}{7} \div \frac{6}{11} = \text{---} \times \text{---} = \text{---}$       12)  $\frac{4}{5} \div \frac{7}{10} = \text{---} \times \text{---} = \text{---}$

# Ultimate Equivalent Fractions, Decimals and Percentages Challenge

Name:

Number Correct:

Time Taken:

Previous Score:



Match the following decimal numbers, percentages and fractions.

0.3	50%	$\frac{2}{5}$	0.25	$\frac{1}{2}$	12.5%
0.5	40%	$\frac{1}{5}$	0.375	$\frac{1}{8}$	50%
0.4	70%	$\frac{7}{10}$	0.75	$\frac{7}{8}$	87.5%
0.7	20%	$\frac{1}{2}$	0.5	$\frac{3}{8}$	25%
0.9	30%	$\frac{9}{10}$	0.125	$\frac{1}{4}$	75%
0.2	90%	$\frac{3}{10}$	0.875	$\frac{3}{4}$	37.5%

Write the equivalent fraction to the following:

75% =	30% =	15% =	90% =	50% =	35% =
0.6 =	0.95 =	0.1 =	0.25 =	0.625 =	0.2 =
25% =	0.9 =	0.5 =	5% =	0.4 =	85% =

Write the equivalent decimal and percentage to the following:

$\frac{1}{2}$ =	$\frac{3}{4}$ =	$\frac{1}{5}$ =	$\frac{1}{3}$ =
$\frac{4}{5}$ =	$\frac{3}{8}$ =	$\frac{1}{10}$ =	$\frac{1}{6}$ =
$\frac{7}{10}$ =	$\frac{2}{5}$ =	$\frac{5}{8}$ =	$\frac{7}{20}$ =



# Finding Percentages

I can calculate percentages of quantities.



Calculate the percentages. Show your working out.

1. 10% of 8000	2. 70% of £5.20
3. 1% of 1450	4. 14% of £67
5. 5% of 9300	6. 5% of 6 000 000
7. 45% of 8600	8. 99% of 3450
9. 68% of 2000	10. 125% of 980





# Finding Factors

I can find factors of numbers.



To find the **factors** of a number, you need to find all the pairs of numbers that multiply together to make a **product**.

$$2 \times 5 = 10$$

2 and 5 are **factors**. 10 is the **product**.

**List the factors of these numbers:**

1. 16
2. 21
3. 24
4. 48
5. 64

**List the factors of these numbers:**

6. 7
7. 11
8. 23
9. 13
10. 5

# Long Multiplication Practice

## - 3 Digits x 2 Digits

1.

		1	6	1
x			2	3
<hr/>				
<hr/>				

2.

		2	3	2
x			2	6
<hr/>				
<hr/>				

3.

		6	1	4
x			1	8
<hr/>				
<hr/>				

4.

		9	6	9
x			9	5
<hr/>				
<hr/>				

5.

		7	4	0
x			9	6
<hr/>				
<hr/>				

6.

		3	6	2
x			5	8
<hr/>				
<hr/>				

7.

		3	0	5
x			7	1
<hr/>				
<hr/>				

8.

		3	7	0
x			6	4
<hr/>				
<hr/>				

9.

		5	8	4
x			1	5
<hr/>				
<hr/>				

10.

		8	5	1
x			8	9
<hr/>				
<hr/>				

11.

		7	4	9
x			9	8
<hr/>				
<hr/>				

12.

		4	8	2
x			2	3
<hr/>				
<hr/>				

13.

		6	4	6
x			1	0
<hr/>				
<hr/>				

14.

		7	0	9
x			1	7
<hr/>				
<hr/>				

15.

		9	1	4
x			5	7
<hr/>				
<hr/>				

16.

		7	1	8
x			4	5
<hr/>				
<hr/>				