

**Addition**

Find the sum of the two numbers in each problem.  
Show all work.

Example:

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

1.  $\begin{array}{r} 652 \\ + 345 \\ \hline \end{array}$

2.  $\begin{array}{r} 203 \\ + 525 \\ \hline \end{array}$

3.  $\begin{array}{r} 726 \\ + 268 \\ \hline \end{array}$

**Decimal Addition:**

Remember to line up the decimals before adding. Bring the decimal straight down in your answer.

4.  $\begin{array}{r} 7.75 \\ + 1.46 \\ \hline \end{array}$

5.  $51.4 + 2.86$

6.  $.1274 + 8.25$

**Subtraction**

Find the difference between the two numbers in each problem. Show all work.

Example:

$$\begin{array}{r} 3 \quad 13 \\ 7 \quad \cancel{4} \quad \cancel{8} \\ - 2 \quad 1 \quad 8 \\ \hline 5 \quad 2 \quad 5 \end{array}$$

7.  $\begin{array}{r} 407 \\ - 198 \\ \hline \end{array}$

8.  $\begin{array}{r} 7,007 \\ - 2,426 \\ \hline \end{array}$

9.  $\begin{array}{r} 3,414 \\ - 1,218 \\ \hline \end{array}$

**Decimal Subtraction:**

Remember to line up the decimals before subtracting. Bring the decimal straight down in your answer.

10.  $\begin{array}{r} 338.38 \\ - 149.27 \\ \hline \end{array}$

11.  $80.401 - 44.23$

12.  $75.89 - 9.4$

**Multiplication**

Find the product of the two numbers in each problem. Show all work.

Example:

$$\begin{array}{r} 54 \\ \times 16 \\ \hline 324 \\ + 540 \\ \hline 864 \end{array}$$

13.

$$\begin{array}{r} 65 \\ \times 4 \\ \hline \end{array}$$

14.

$$\begin{array}{r} 42 \\ \times 8 \\ \hline \end{array}$$

15.

$$\begin{array}{r} 84 \\ \times 39 \\ \hline \end{array}$$

**Decimal Multiplication:**

Multiply as you would with whole numbers. Count the decimal places in each factor. The product (answer) has the same number of decimal places.

16.

$$\begin{array}{r} .13 \\ \times 70 \\ \hline \end{array}$$

17.

$$\begin{array}{r} 5.1 \\ \times 2 \\ \hline \end{array}$$

18.

$$\begin{array}{r} .108 \\ \times 2.5 \\ \hline \end{array}$$

**Division**

Find the quotient in each problem. If there is a remainder, state the remainders as R=\_\_\_\_. Show all work. Feel free to use a separate sheet of paper.

19.

$$7 \overline{)591}$$

20.

$$12 \overline{)264}$$

21.

$$43 \overline{)2815}$$

### Decimal Division:

If the divisor (outside number) is a decimal, you must move the decimal point (using multiplication) to the right until it becomes a whole number. Then, move the decimal in the dividend (inside number) the same number of times. Divide to find your answer (quotient).

Then, move the decimal straight up from the dividend to the quotient.

Remember, no remainders.

$$\begin{array}{r} \text{quotient} \\ \text{divisor} \overline{) \text{dividend}} \end{array}$$

22.

23.

24.

$$3 \overline{) 31.8}$$

$$.5 \overline{) 7.45}$$

$$.12 \overline{) 12.24}$$

### Rounding

Underline the given place value. Look to the right. If this digit is 5 or greater, increase the underlined digit by 1. If the digit to the right is less than 5, keep the underlined digit the same.

Round to the nearest...

hundredth

0.547      0.55

Round to the nearest....

25. tenth  
0.3479

26. hundredth  
0.7553

27. whole number  
3.268

28. ten  
162.21

29. thousandth  
0.0036

30. hundred  
990.54

Compare the decimals.

Compare using <, >, or =

1.2 ○ 1.20      1.2 = 1.20

31. 0.205 ○ 0.21

32. 1.03 ○ 0.03

33. 0.04 ○ 0.050

34. 0.1 ○ 0.1000

35. 0.52 ○ 0.500

36. 0.41 ○ 0.405

**Prime Number:** A whole number greater than 1 that has only two factors, 1 and itself.  
Examples: 2, 3, 5, 7, 11, 13, 17, and 19 are all prime numbers.

**Composite Number:** A whole number greater than 1 that has more than two factors.  
Example: 8 is a composite number since its factors are 1, 2, 4, 8.

Determine if the following numbers are prime or composite. If the numbers are composite, please list all of the factors.

37. 27: \_\_\_\_\_

38. 39: \_\_\_\_\_

39. 43: \_\_\_\_\_

40. 49: \_\_\_\_\_

### Exponents

A way to show repeated multiplication by the same factor is to use an exponent. In this example:  $2^3 = 2 \times 2 \times 2 = 8$ . The small raised three is the exponent. It tells how many times the number 2, called the base, is multiplied by itself.

Solve the following expressions by writing the expanded notation (repeated multiplication) and find the value.

41.  $6^2$

42.  $2^6$

43.  $3^4$

44. eight squared

45. five cubed

**Greatest Common Factor**

The greatest factor that two or more numbers have in common (*GCF*).

1. List all the factors of **four** in order
2. List all the factors of **twenty** in order
3. List the common factors
4. Write the greatest common factor

Finding Common Factors:

4: 1, 2, 4

20: 1, 2, 4, 5, 10, 20

Common Factors: 1, 2, 4    *GCF* = 4

List all the factors for each number. Circle the common factors.

46. 18 : \_\_\_\_\_

30 : \_\_\_\_\_

Common Factors: \_\_\_\_\_      Greatest Common Factor: \_\_\_\_\_

47. 60 : \_\_\_\_\_

45 : \_\_\_\_\_

Common Factors: \_\_\_\_\_      Greatest Common Factor: \_\_\_\_\_

48. 23: \_\_\_\_\_

29: \_\_\_\_\_

Common Factors: \_\_\_\_\_      Greatest Common Factor: \_\_\_\_\_

49. 56: \_\_\_\_\_

72: \_\_\_\_\_

Common Factors: \_\_\_\_\_      Greatest Common Factor: \_\_\_\_\_