



Name \_\_\_\_\_ Class \_\_\_\_\_

# Adding and Subtracting Integers

## Part A

**Directions:** Solve each of the following addition problems.

- |                    |                    |                    |
|--------------------|--------------------|--------------------|
| 1. $-7 + (-3) =$   | 2. $-15 + (-10) =$ | 3. $-6 + (-4) =$   |
| 4. $-16 + (-93) =$ | 5. $7 + (-2) =$    | 6. $-10 + 4 =$     |
| 7. $-25 + (-18) =$ | 8. $5 + (-8) =$    | 9. $-13 + (-55) =$ |
| 10. $24 + (-15) =$ | 11. $31 + (-89) =$ | 12. $-37 + 95 =$   |

## Part B

**Directions:** Solve each of the following subtraction problems.

- |                       |                      |                     |
|-----------------------|----------------------|---------------------|
| 1. $-6 - (-2) =$      | 2. $12 - (+7) =$     | 3. $-35 - (-12) =$  |
| 4. $28 - (+16) =$     | 5. $-529 - (-345) =$ | 6. $-197 - (-58) =$ |
| 7. $1,205 - (+384) =$ | 8. $-8 - (+9) =$     | 9. $-8 - (+22) =$   |
| 10. $35 - (-13) =$    | 11. $+47 - (+15) =$  | 12. $11 - (-7) =$   |

## Part C

**Directions:** Solve each of the following addition or subtraction problems.

- |                    |                    |                      |
|--------------------|--------------------|----------------------|
| 1. $12 + (-5) =$   | 2. $9 - (-15) =$   | 3. $14 - (+20) =$    |
| 4. $-15 + (-30) =$ | 5. $-45 + 56 =$    | 6. $8 - (-3) =$      |
| 7. $18 + 45 =$     | 8. $-5 - (+12) =$  | 9. $-3 - (-15) =$    |
| 10. $-28 + 12 =$   | 11. $81 - (-33) =$ | 12. $203 + (-203) =$ |



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# Multiplying and Dividing Integers

## Part A

Directions: Solve each of the following multiplication problems.

1.  $(-11)(7) =$

2.  $(-5)(-9) =$

3.  $(10)(6) =$

4.  $(4)(-12) =$

5.  $(-8)(3) =$

6.  $(-59)(-9) =$

7.  $(-28)(25) =$

8.  $(-4)(-205) =$

9.  $(24)(15) =$

## Part B

Directions: Solve each of the following division problems.

1.  $15 \div (-5) =$

2.  $-54 \div 9 =$

3.  $21 \div 3 =$

4.  $-42 \div (-6) =$

5.  $-16 \div 4 =$

6.  $(-204) \div (-6) =$

7.  $180 \div (-12) =$

8.  $306 \div 17 =$

9.  $(-300) \div (-20) =$

## Part C

Directions: Solve each of the following multiplication or division problems.

1.  $(-5)(8) =$

2.  $-12 \div 4 =$

3.  $15 \div (-3) =$

4.  $(-10)(7) =$

5.  $(25)(-15) =$

6.  $-15 \div (-5) =$

7.  $(7)(12) =$

8.  $(39)(6) =$

9.  $-84 \div (-21) =$



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# Algebra Basics I

## Part A

**Directions:** Solve each of the following addition and subtraction equations.

1.  $y - 8 = 21$

2.  $a + 19 = 42$

3.  $28 = b - 13$

4.  $c - 17 = 35$

5.  $61 = x + 37$

6.  $46 = x + 29$

7.  $a + 17 = 31$

8.  $132 = a - 58$

9.  $x - 7 = 15$

10.  $30 + t = 93$

11.  $a + 128 = 314$

12.  $50 = h - 18$

13.  $84 = r + 28$

14.  $x - 172 = 86$

15.  $500 = b - 50$

## Part B

**Directions:** Solve each of the following division and multiplication equations.

1.  $4n = 16$

2.  $\frac{y}{3} = 2$

3.  $100 = 25y$

4.  $3 = \frac{x}{18}$

5.  $4x = 120$

6.  $\frac{x}{12} = 3$

7.  $\frac{h}{15} = 22$

8.  $6r = 138$

9.  $8 = \frac{m}{7}$

10.  $350 = 25h$

11.  $\frac{n}{7} = 16$

12.  $21c = 168$

13.  $124 = \frac{w}{3}$

14.  $\frac{u}{9} = 9$

15.  $374 = 11s$



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# Algebra Basics II

## Part A

**Directions:** Change each word statement to an algebraic equation and solve.

1. 8 multiplied by  $m$  is 96.

Equation:

Solution:

2. Seventy-eight is the product of six and  $r$ .

Equation:

Solution:

3.  $x$  divided by thirteen is four.

Equation:

Solution:

4. 7 is the result of  $t$  divided by 25.

Equation:

Solution:

## Part B

**Directions:** Choose a variable for the unknown number and solve the equation.

1. The product of 8 and a number is 152.

Equation:

Solution:

2. Some number divided by fifteen is seventy-five.

Equation:

Solution:

3. 135 equals a number divided by 9.

Equation:

Solution:

4. 23 times some number equals 253.

Equation:

Solution:



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# Algebra Basics III

**Directions:** Solve each of the following equations.

1.  $4n + 6 = 18$

2.  $2t - 5 = 13$

3.  $8y - 7 = 25$

4.  $5a + 4 = 19$

5.  $4x + 3 = 15$

6.  $6n - 10 = 32$

7.  $\frac{n}{4} - 1 = 1$

8.  $\frac{x}{2} + 9 = 14$

9.  $\frac{y}{3} - 7 = 10$

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

11.  $\frac{n}{6} + 4 = 10$

12.  $\frac{x}{8} - 5 = 6$

13.  $\frac{y}{9} - 3 = 7$

14.  $3n + 15 = 42$

15.  $5t - 6 = 29$

16.  $\frac{h}{12} - 4 = 7$

17.  $2n - 9 = 13$

18.  $\frac{x}{2} - 6 = 6$

19.  $7a + 3 = 3$

20.  $\frac{y}{3} + 9 = 12$



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# Algebra Basics IV

## Part A

**Directions:** Define the variable and write an equation for each word statement below.

1. 4 times a number plus 3 is 23. \_\_\_\_\_
2. A number divided by 9, plus 5, is equal to 7. \_\_\_\_\_
3. 15 more than twice a number is 29. \_\_\_\_\_
4. 5 is equal to a number divided by 4, minus 10. \_\_\_\_\_

## Part B

**Directions:** Assign a variable for the unknown value in each problem. Then write an equation and solve.

1. Alice bought 2 skirts for the same price. She also bought a blouse for \$22. If Alice spent a total of \$58, what was the price of each skirt?
2. Tina bought 5 tires for her car. She paid \$240 and received \$15 in change. How much did each tire cost?
3. Mike was paid the same wage for 4 weeks. He also received a bonus of \$150. If he received a total of \$1,250, what were his wages for each week?
4. Martin spent \$82 for 3 tickets, including tax. If the tax was \$4, how much did each ticket cost?