

Name _____

Date _____

Write Expressions in Which Letters Stand for Numbers

Write an expression using letters and/or numbers for each problem below.

1. d squared.
2. A number x increased by 6 and then the sum is doubled.
3. The total of h and b is split into 5 equal groups.
4. Jazmin has increased her \$45 by m dollars and then spends a third of the entire amount.
5. Bill has d more than 3 times the number of baseball cards as Frank. Frank has f baseball cards.

Write an expression using letters and/or numbers for each problem below.

1. 4 less than the quantity of 8 times n .
2. 6 times the sum of y and 11.
3. The square of m reduced by 49.
4. The quotient when the quantity of 17 plus p is divided by 8.
5. Jim earned j in tips, and Steve earned s in tips. They combine their tips then split them equally.
6. Owen has c collector cards. He quadruples the number of cards he has, and then combines them with Ian, who has i collector cards.
7. Rae ran 4 times as many miles as Madison and Aaliyah combined. Madison ran m miles and Aaliyah ran a miles.
8. By using coupons, Mary Jo was able to decrease the retail price of her groceries, g , by \$125.
9. To calculate the area of a triangle, you find the product of the base and height and then divide by 2.
10. The temperature today was 10 degrees colder than twice yesterday's temperature, t .

Write an expression using letters and/or numbers for each problem below.

1. d squared.

$$d^2$$

2. A number x increased by 6 and then the sum is doubled.

$$2(x + 6)$$

3. The total of h and b is split into 5 equal groups.

$$\frac{h+b}{5} \text{ or } (h + b) \div 5$$

4. Jazmin has increased her \$45 by m dollars and then spends a third of the entire amount.

$$\frac{45 + m}{3} \text{ or } \frac{1}{3}(45 + m)$$

5. Bill has d more than 3 times the number of baseball cards as Frank. Frank has f baseball cards.

$$3f + d \text{ or } d + 3f$$

Write an expression using letters and/or numbers for each problem below.

1. 4 less than the quantity of 8 times n .

$$8n - 4$$

2. 6 times the sum of y and 11.

$$6(y + 11)$$

3. The square of m reduced by 49.

$$m^2 - 49$$

4. The quotient when the quantity of 17 plus p is divided by 8.

$$\frac{17+p}{8} \text{ or } (17 + p) \div 8$$

5. Jim earned j in tips, and Steve earned s in tips. They combine their tips then split them equally.

$$\frac{j+s}{2} \text{ or } (j + s) \div 2$$

6. Owen has c collector cards. He quadruples the number of cards he has, and then combines them with Ian, who has i collector cards.

$$4c + i$$

7. Rae runs 4 times as many miles as Madison and Aaliyah combined. Madison runs m miles and Aaliyah runs a miles.

$$4(m + a)$$

8. By using coupons, Mary Jo is able to decrease the retail price of her groceries, g , by \$125.

$$g - 125$$

9. To calculate the area of a triangle, you find the product of the base and height and then divide by 2.

$$\frac{bh}{2} \text{ or } bh \div 2$$

10. The temperature today was 10 degrees colder than twice yesterday's temperature, t .

$$2t - 10$$