

## ALGEBRA I

## 3.3 Warm-Up #1

## Adding Expressions

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

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

Complete these sums by adding alike pictures.

1.  $\ast + \ast + \ast + \ast + \ast + \ast + \ast = \underline{7} \ast$

2.  $\heartsuit + \heartsuit + \heartsuit + \heartsuit + \heartsuit + \heartsuit + \heartsuit + \heartsuit = \underline{\quad} \heartsuit$

3.  $\odot + \odot + \odot + \times + \times = \underline{\quad} \odot + \underline{\quad} \times$

4.  $\flat + \boxplus + \boxplus + \rightarrow = \underline{\quad} \flat + \underline{\quad} \boxplus + \underline{\quad} \rightarrow$

5.  $\text{pencil} + \heartsuit + \heartsuit + \text{pencil} + \heartsuit = \underline{2} \text{pencil} + \underline{3} \heartsuit$

6.  $\blacktriangle + \ast + \blacktriangle + \blacktriangle + \blacktriangle = \underline{\quad} \ast + \underline{\quad} \blacktriangle$

7.  $\boxtimes + \boxtimes + \diamond + \text{flower} = \underline{\quad} \boxtimes + \underline{\quad} \diamond + \underline{\quad} \text{flower}$

8.  $\star + \bullet + \star + \bullet + \bullet = \underline{\quad} \star + \underline{\quad} \bullet$

Complete these sums by adding alike variables.

9.  $z + z + z + z + z + z + z + z = \underline{\quad} z$

10.  $m + m + m + m + m = \underline{5} m$

11.  $x + x + y + y + y = \underline{\quad} x + \underline{\quad} y$

12.  $a + a + b + b + b = \underline{\quad} a + \underline{\quad} b$

13.  $d + f + d + d + d + d = \underline{\quad} d + \underline{\quad} f$

14.  $x + z + y + z = \underline{1} x + \underline{1} y + \underline{2} z$

15.  $g + e + g + e + g + g = \underline{\quad} e + \underline{\quad} g$

16.  $f + g + e + f + g = \underline{\quad} e + \underline{\quad} f + \underline{\quad} g$

Evaluate each expression.

17.  $w + w + w + w + 4w = \underline{8} w$

19.  $3k + k + 2k + k = \underline{7} k$

21.  $5a + 3a =$

23.  $4c + 5c =$

25.  $4a + 3a + 5a =$

27.  $6c + 2c + 3c =$

29.  $3a + 6a + 7a =$

31.  $2c + 5c + 6c + 3c =$

33.  $10a + 6a + 3a + a =$

35.  $2d + 4d + 8d + 3d =$

37.  $b + b + b + b =$

18.  $2a + 3a + 2a = \underline{7} a$

20.  $c + c + c + c + c = \underline{5} c$

22.  $6b + 2b =$

24.  $7d + 3d =$

26.  $8b + 2b + 3b =$

28.  $5d + d + 6d =$

30.  $8b + 5b + 6b =$

32.  $3d + d + 8d + 4d =$

34.  $14b + 2b + 3b + b =$

36.  $4c + 2c + 3c + c =$

38.  $2a + a + 2a + a =$