

Name:

Class/Set:

# Collecting Like Terms

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1: Simplify the following:

a)  $v + v + v + v + v =$  \_\_\_\_\_

b)  $u + u + u + u + u + u =$  \_\_\_\_\_

c)  $h + h + h + h =$  \_\_\_\_\_

d)  $n + n + n =$  \_\_\_\_\_

2: Simplify the following:

a)  $4x + 2x =$  \_\_\_\_\_

b)  $2r + r =$  \_\_\_\_\_

c)  $6f + 10f =$  \_\_\_\_\_

d)  $2t + 7t =$  \_\_\_\_\_

e)  $8q + 6q =$  \_\_\_\_\_

f)  $5e + 8e =$  \_\_\_\_\_

g)  $2y + 8y =$  \_\_\_\_\_

h)  $10a + 4a =$  \_\_\_\_\_

3: Simplify the following:

a)  $5k + 3b + 7k + 5b =$  \_\_\_\_\_

b)  $9w + 5z + 4w + z =$  \_\_\_\_\_

c)  $8j + 7p + 3j + p =$  \_\_\_\_\_

d)  $5s + 3m + 4s + 2m =$  \_\_\_\_\_

e)  $9c + g + 2c + 5g =$  \_\_\_\_\_

f)  $10r + 10n + r + 3n =$  \_\_\_\_\_

g)  $t + 10f + 7t + 10f =$  \_\_\_\_\_

h)  $4x + 8z + 5x + z =$  \_\_\_\_\_

4: Simplify the following:

a)  $6v + 3 + 3v + 10 =$  \_\_\_\_\_

b)  $4u + 1 + 4u + 9 =$  \_\_\_\_\_

c)  $7k + 3 + 3k + 7 =$  \_\_\_\_\_

d)  $7y + 8 + 4y + 2 =$  \_\_\_\_\_

e)  $4j + 7 + 9j + 5 =$  \_\_\_\_\_

f)  $8h + 4 + 7h + 7 =$  \_\_\_\_\_

g)  $10g + 10 + 9g + 7 =$  \_\_\_\_\_

h)  $m + 6 + m + 6 =$  \_\_\_\_\_

5: Simplify the following:

a)  $5e + 2c + 6 + 2e + 6c + 7 =$  \_\_\_\_\_

b)  $p + 2b + 6 + 3p + 5b + 2 =$  \_\_\_\_\_

c)  $10w + 9q + 8 + 6w + 7q + 9 =$  \_\_\_\_\_

d)  $3a + 5s + 3 + a + 9s + 3 =$  \_\_\_\_\_

e)  $k + 7t + 8 + 10k + 2t + 5 =$  \_\_\_\_\_

f)  $5v + 5r + 6 + 5v + 10r + 8 =$  \_\_\_\_\_

g)  $2j + 7z + 9 + 9j + 8z + 10 =$  \_\_\_\_\_

h)  $10e + 2h + 1 + 5e + 4h + 8 =$  \_\_\_\_\_

6: Simplify the following:

a)  $-6n + 8n =$  \_\_\_\_\_

b)  $10u - 5u =$  \_\_\_\_\_

c)  $4f - 4f =$  \_\_\_\_\_

d)  $-4x - 9x =$  \_\_\_\_\_

e)  $8m - 6m =$  \_\_\_\_\_

f)  $-g - 2g =$  \_\_\_\_\_

g)  $-3y - y =$  \_\_\_\_\_

h)  $-7w - 3w =$  \_\_\_\_\_

7: Simplify the following:

a)  $-7a + 9s + 10a - 2s =$  \_\_\_\_\_

b)  $6q + 7p - 4q - p =$  \_\_\_\_\_

c)  $8c + 6b - 8c - 2b =$  \_\_\_\_\_

d)  $-8k - h - 4k - 8h =$  \_\_\_\_\_

e)  $-4z - 9r + 3z + 4r =$  \_\_\_\_\_

f)  $-10f - 3n - 8f + 6n =$  \_\_\_\_\_

g)  $-7a - 3m + 4a - 9m =$  \_\_\_\_\_

h)  $-7v - 5w + 3v - 2w =$  \_\_\_\_\_

8: Simplify the following:

a)  $-10j + 4 + 9j - 5 =$  \_\_\_\_\_

b)  $-2x - 5 + 4x + 4 =$  \_\_\_\_\_

c)  $-5p + 6 - 4p - 10 =$  \_\_\_\_\_

d)  $-9c - 9 - 7c + 5 =$  \_\_\_\_\_

e)  $7q + 4 - 6q - 6 =$  \_\_\_\_\_

f)  $-5b - 7 - 5b - 6 =$  \_\_\_\_\_

g)  $-10y - 5 - 3y + 8 =$  \_\_\_\_\_

h)  $5e - 5 - 6e + 9 =$  \_\_\_\_\_

9: Simplify the following:

a)  $-3g - 7u + 1 - 6g + 6u - 2 =$  \_\_\_\_\_

b)  $8t - 10s + 3 - 3t + 3s - 4 =$  \_\_\_\_\_

c)  $9m - 9f + 1 - m - 4f - 6 =$  \_\_\_\_\_

d)  $7w - 6a - 7 - 3w - 8a + 2 =$  \_\_\_\_\_

e)  $8k + 9v - 2 - k - 4v + 5 =$  \_\_\_\_\_

f)  $2r + 10c - 6 - 10r - 3c + 5 =$  \_\_\_\_\_

g)  $n - 9j - 7 - 4n - 8j - 7 =$  \_\_\_\_\_

h)  $-10q + 5y + 6 - 2q - y - 6 =$  \_\_\_\_\_

# Answers: Collecting Like Terms

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1: a)  $5v$                       b)  $6u$                       c)  $4h$                       d)  $3n$

2: a)  $6x$                       b)  $3r$                       c)  $16f$                       d)  $9t$   
e)  $14q$                       f)  $13e$                       g)  $10y$                       h)  $14a$

3: a)  $12k + 8b$                       b)  $13w + 6z$                       c)  $11j + 8p$                       d)  $9s + 5m$   
e)  $11c + 6g$                       f)  $11r + 13n$                       g)  $8t + 20f$                       h)  $9x + 9z$

4: a)  $9v + 13$                       b)  $8u + 10$                       c)  $10k + 10$                       d)  $11y + 10$   
e)  $13j + 12$                       f)  $15h + 11$                       g)  $19g + 17$                       h)  $2m + 12$

5: a)  $7e + 8c + 13$                       b)  $4p + 7b + 8$                       c)  $16w + 16q + 17$                       d)  $4a + 14s + 6$   
e)  $11k + 9t + 13$                       f)  $10v + 15r + 14$                       g)  $11j + 15z + 19$                       h)  $15e + 6h + 9$

6: a)  $2n$                       b)  $5u$                       c)  $0$                       d)  $-13x$   
e)  $2m$                       f)  $-3g$                       g)  $-4y$                       h)  $-10w$

7: a)  $3a + 7s$                       b)  $2q + 6p$                       c)  $4b$                       d)  $-12k - 9h$   
e)  $-z - 5r$                       f)  $-18f + 3n$                       g)  $-3a - 12m$                       h)  $-4v - 7w$

8: a)  $-j - 1$                       b)  $2x - 1$                       c)  $-9p - 4$                       d)  $-16c - 4$   
e)  $q - 2$                       f)  $-10b - 13$                       g)  $-13y + 3$                       h)  $-e + 4$

9: a)  $-9g - u - 1$                       b)  $5t - 7s - 1$                       c)  $8m - 13f - 5$                       d)  $4w - 14a - 5$   
e)  $7k + 5v + 3$                       f)  $-8r + 7c - 1$                       g)  $-3n - 17j - 14$                       h)  $-12q + 4y$