

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

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



# Combining Like Terms

WARM-UP

Match each pair of equivalent expressions

$2 \times 6g$

$g + 2 + 6$

$(9 + g) + 12$

$12g$

$g + 8$

$8g$

$4 \times g \times 2$

$g + 21$

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# Combining Like Terms

WARM-UP

Rewrite each expression using multiplication

$g + g + g + g + g$

$t + t + t$

$d + d + d + d + d + d + d$

$k + k + k + k$

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# Combining Like Terms

EXIT SLIP

Simplify each expression:

$$2g + 4g + 5g$$

$$t + 2t - 4$$

$$5d + 2 + 3d - d$$

$$2k + 2k^2 - k + 5k^2$$

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# Combining Like Terms

EXIT SLIP

Trisha simplified each expression below by combining like terms. She did each one incorrectly. Identify and explain the mistakes that Trisha made in each problem.

$$5g + 2g^2 = 7g^3$$

$$10h - 6h = 16h$$



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# Combining Like Terms

## PRACTICE PROBLEMS

Simplify each expression:

#1  $5g - g + 2y + 4y$

#2  $15t + 9s + t - 9$

#3  $16x^2 + 4x^2 - 2x - 12x^2 + 4x$

#4  $h + 2h + 7g + 9 + g$

#5  $18k - 12k + 2m - m$

#6  $3g^2 + 5g - 2g^2 + g$

#7  $6h^3 + 2h^2 + 2h - h + 5h^3$

#8  $m + n + 2m + 3n$



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# Combining Like Terms Assessment

Select the correct answer for each question.

1. Simplify the expression:

$$4x + 5x$$

- a)  $9x^2$
- b)  $9x$
- c)  $20x$
- d)  $20x^2$

2. Simplify the expression:

$$15x - 12x + 4y + 6y$$

- a)  $3x + 10y$
- b)  $3x + 2y$
- c)  $27x + 10y$
- d)  $13xy$

3. Simplify the expression:

$$6x^2 + 7x - 3x^2 - 2x$$

- a)  $9x^2 + 9x$
- b)  $9x^2 + 5x$
- c)  $3x^2 + 5x$
- d)  $3x^2 - 5x$

4. Simplify the expression:

$$6k + 8k + 3 + 2$$

- a)  $48k + 5$
- b)  $2k + 5$
- c)  $15k$
- d)  $14k + 5$

5. Simplify the expression:

$$4g + 7h - g + h + 8 + 3$$

- a)  $3g + 8h + 11$
- b)  $3g + 2 + 6h + 11$
- c)  $4g^2 + 7h^2 + 11$
- d)  $7h + 15$

6. Select all of the expressions equivalent to the expression below:

$$6a + 4b + 3$$

- a)  $5a + 4b + a + 2 + 1$
- b)  $7a + b + 3b - a + 3$
- c)  $6a + 4b + 2b + 2 + 1$
- d)  $1 + 4a + 4b - 2a + 2$
- e)  $3 + b + 3b + 5a + a$

Answer the question below. Be sure to show all of your work.

Find the perimeter of the figure below. Simplify your answer.

