name:

Daily Warmup

Directions: Write each expression in simples form.

❶ $5x + 10y + 8x + 10$

❷ $2m + m + 5 + 3m$

❸ $2(3x + 5) + 8$

❹ $4(x + 2) + x$

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name:

Daily Warmup

Directions: Write each expression in simples form.

❶ $x + x + x + x$

❷ $14p + 9 + 2t + 7p + 1$

❸ $3(4x + 1) + 2$

❹ $2(m + 4) + m$

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name: ANSWER KEY

Daily Warmup

Directions: Write each expression in simples form.

❶ $5x + 10y + 8x + 10$

$13x + 10y + 10$

❷ $2m + m + 5 + 3m$

$6m + 5$

❸ $2(3x + 5) + 8$

$6x + 18$

❹ $4(x + 2) + x$

$5x + 8$

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name: ANSWER KEY

Daily Warmup

Directions: Write each expression in simples form.

❶ $x + x + x + x$

$4x$

❷ $14p + 9 + 2t + 7p + 1$

$21p + 2t + 10$

❸ $3(4x + 1) + 2$

$12x + 5$

❹ $2(m + 4) + m$

$3m + 8$

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Combining Like Terms

- I can identify parts of an expression.
- I can apply properties of operations to generate equivalent expressions.
- I can simplify an expression by combining like terms.

* 6.EE.3 * 6.EE.4 *

WORD	DEFINE OR GIVE AN EXAMPLE	CIRCLE TO IDENTIFY
term		6x + 5y + x + 8
like terms		6x + 5y + x + 8
constant		6x + 5y + x + 8
coefficient		6x + 5y + x + 8
variable		6x + 5y + x + 8
operation		6x + 5y + x + 8
expression		6x + 5y + x + 8

Circle/Color and link each set of like terms.

4x + 10y + 6x + y + 2 m + 2n + m + m 9x + x + 7 + 2x + 13

~~~~~~

Simplify each expression by combining like terms.

I 5r + 6r

W 3x + 2y + 5x + 4

10m + 3n + m + 5n

Y 7x - 2x

12x + 4y + 7x

m + m + m + 3

2p + 12t + 12p + 3p

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~~~~~~

Simplify each expression.

I $4(4r + 3t) + 8$

W $2x(5 + 1) + 7x$

Y $2(2x + 2) + 2$

$4(x + y + 1) + 2x + y$

$5(3y + 10z) + 2y$

$3(2x + 2y + 3x + 5) + 6$

~~~~~~

Solve each word problem.

I Amy ran R times in January, quadruple that amount in February, and six times the original amount in March. Write an expression in simplest form to represent the total number of times she ran.

W Jared blinked B times in the first hour, triple that amount in the second hour and 345 times in the third hour. Write an expression in simplest form to represent the total number of times he blinked.

Y Ben spent X dollars on groceries in October, double that amount in November, and $432 in December. Write an expression in simplest form to represent the amount of money Ben spent on groceries October through December.

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~~~~~~

Combining Like Terms

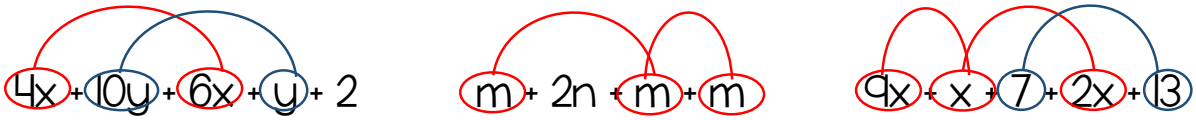
- I can identify parts of an expression.
- I can apply properties of operations to generate equivalent expressions.
- I can simplify an expression by combining like terms.

ANSWER KEY

* 6.EE.3 * 6.EE.4 *

WORD	DEFINE OR GIVE AN EXAMPLE	CIRCLE TO IDENTIFY
term	parts of an expression separated by operations	(6x) + (5y) + (x) + (8)
like terms	terms that have like variables	(6x) + 5y + (x) + 8
constant	a term without a variable	6x + 5y + x + (8)
coefficient	the number in front of the the variable (the 3 in 3x)	(6)x + (5)y + x + 8
variable	6x + 5y + x + 8	6(x) + 5(y) + (x) + 8
operation	examples: +, -, ·, ÷	6x (+) 5y (+) x (+) 8
expression	a combination of operations and terms.	(6x + 5y + x + 8)

Circle/Color and link each set of like terms.



~~~~~~

Simplify each expression by combining like terms.

I

5r + 6r

11r

W

3x + 2y + 5x + 4

8x + 2y + 4

10m + 3n + m + 5n

11m + 8n

Y

7x - 2x

5x

12x + 4y + 7x

19x + 4y

m + m + m + 3

3m + 3

2p + 12t + 12p + 3p

17p + 12t

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~~~~~~

Simplify each expression.

ANSWER KEY

I

$4(4r + 3) + 8$

$16r + 12 + 8$
$16r + 20$

W

$2x(5 + 1) + 7x$

$10x + 2x + 7x$
$19x$

Y

$2(2x + 2) + 2$

$4x + 4 + 2$
$4x + 6$

$4(x + y + 1) + 2x + y$

$4x + 4y + 4 + 2x + y$
$6x + 5y + 4$

$5(3y + 10z) + 2y$

$15y + 50z + 2y$
$17y + 50z$

$3(2x + 2y + 3x + 5) + 6$

$6x + 6y + 9x + 15 + 6$
$15x + 6y + 21$

~~~~~~

Solve each word problem.

I

Amy ran R times in January, quadruple that amount in February, and six times the original amount in March. Write an expression in simplest form to represent the total number of times she ran.

$R + 4R + 6R$
$11R$

W

Jared blinked B times in the first hour, triple that amount in the second hour and 345 times in the third hour. Write an expression in simplest form to represent the total number of times he blinked.

$B + 3B + 345$
$4B + 345$

Y

Ben spent X dollars on groceries in October, double that amount in November, and $432 in December. Write an expression in simplest form to represent the amount of money Ben spent on groceries October through December.

$X + 2X + 432$
$3X + 432$

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~~~~~~

Name:

Prove it

Combining Like Terms

Attempt 1

Simplify each expression.

1. 6x + 3x

2. 10x + 5y + 3x + 4

3. x + 7y + x + 4 + 3y

4. 2(3x + 7) + 16

5. 4(5x + 6y + 8) + 2y + 3

Attempt 2

Simplify each expression.

1. 8x + 5x

2. 4x + 6y + 11x + 12

3. x + y + x + y + 7 + y

4. 3(9x + 3) + 22

5. 5(x + 2y + 4) + 3y + 6

Attempt 3

Simplify each expression.

1. 5x + 9x

2. 4x + 2y + 5x + 9

3. 2x + y + 2x + y + 2y

4. 6(x + 1) + 12

5. 2(4x + 7y + 3) + 5y + 8

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Name:

Prove it

ANSWER KEY

Combining Like Terms

Attempt 1

Simplify each expression.

1. $6x + 3x$

$9x$

2. $10x + 5y + 3x + 4$

$13x + 5y + 4$

3. $x + 7y + x + 4 + 3y$

$2x + 10y + 4$

4. $2(3x + 7) + 16$

$6x + 14 + 16$
$6x + 30$

5. $4(5x + 6y + 8) + 2y + 3$

$20x + 24y + 32 + 2y + 3$
$20x + 26y + 35$

Attempt 2

Simplify each expression.

1. $8x + 5x$

$13x$

2. $4x + 6y + 11x + 12$

$15x + 6y + 12$

3. $x + y + x + y + 7 + y$

$2x + 3y + 7$

4. $3(9x + 3) + 22$

$27x + 9 + 22$
$27x + 31$

5. $5(x + 2y + 4) + 3y + 6$

$5x + 10y + 20 + 3y + 6$
$5x + 13y + 26$

Attempt 3

Simplify each expression.

1. $5x + 9x$

$14x$

2. $4x + 2y + 5x + 9$

$6x + 2y + 9$

3. $2x + y + 2x + y + 2y$

$4x + 4y$

4. $6(x + 1) + 12$

$6x + 6 + 12$
$6x + 18$

5. $2(4x + 7y + 3) + 5y + 8$

$8x + 14y + 6 + 5y + 8$
$8x + 19y + 14$

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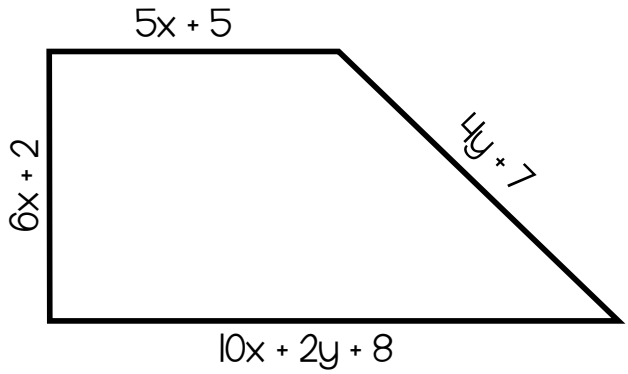
name:

Exit Ticket

Directions: Write an expression in simplest form to represent the perimeter of the shape.



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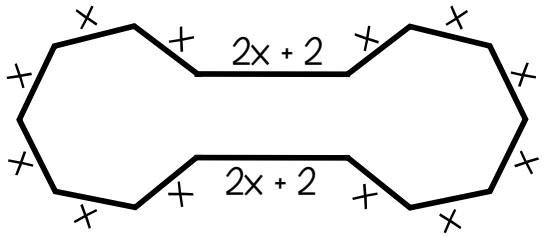
name:

Exit Ticket

Directions: Write an expression in simplest form to represent the perimeter of the shape.



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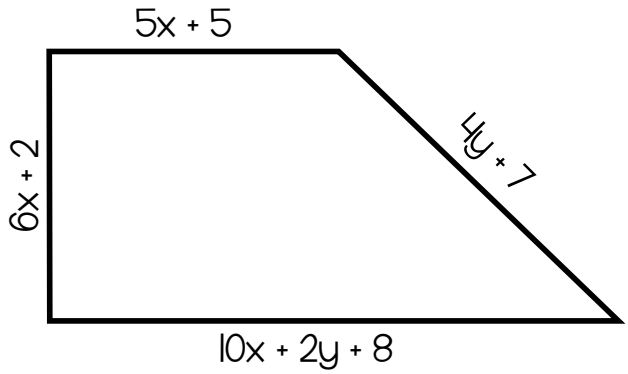
name:

Exit Ticket

ANSWER KEY

Directions: Write an expression in simplest form to represent the perimeter of the shape.



21x + 6y + 14

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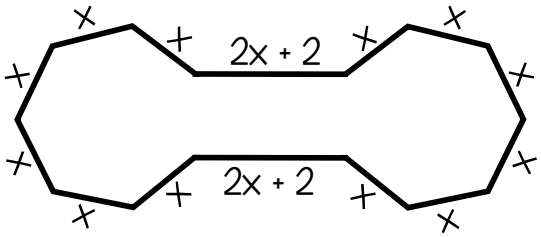
name:

Exit Ticket

ANSWER KEY

Directions: Write an expression in simplest form to represent the perimeter of the shape.



16x + 4

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COMBINING LIKE TERMS: HOMEWORK A

Directions: Write each expression in simplest form.

1. $4x + 2x$	**6.** $2(2x + 1) + 7$
2. $8x + 9 + x$	**7.** $3(x + 5) + 2x$
3. $12x + 5y + 3x + 2$	**8.** $5(x + y) + 5$
4. $x + x + x + x + x$	**9.** $2(4x + 3) + 2x + 9$
5. $2y + 2x + 2x + y + 3$	**10.** $3(x + 2y + 4) + 5y + 7$

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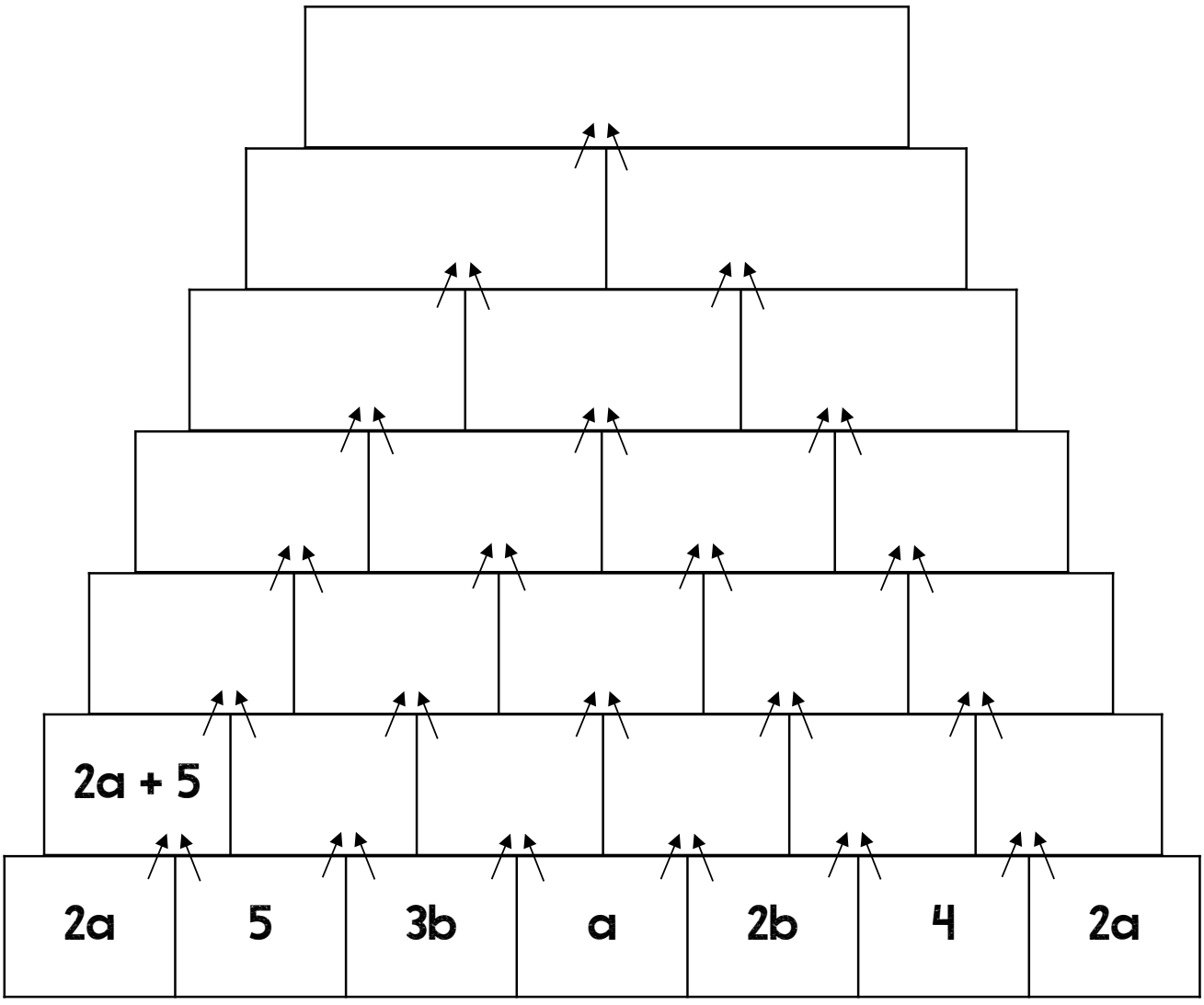
COMBINING LIKE TERMS: HOMEWORK B

Start at the bottom and combine like terms until you reach the top. The first one at the bottom left is done for you.



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ANSWER KEY

COMBINING LIKE TERMS: HOMEWORK A

Directions: Write each expression in simplest form.

1. $4x + 2x$ $6x$	**6.** $2(2x + 1) + 7$ $4x + 9$
2. $8x + 9 + x$ $9x + 9$	**7.** $3(x + 5) + 2x$ $5x + 15$
3. $12x + 5y + 3x + 2$ $15x + 5y + 2$	**8.** $5(x + y) + 5$ $5x + 5y + 5$
4. $x + x + x + x + x$ $5x$	**9.** $2(4x + 3) + 2x + 9$ $10x + 15$
5. $2y + 2x + 2x + y + 3$ $4x + 3y + 3$	**10.** $3(x + 2y + 4) + 5y + 7$ $3x + 11y + 19$

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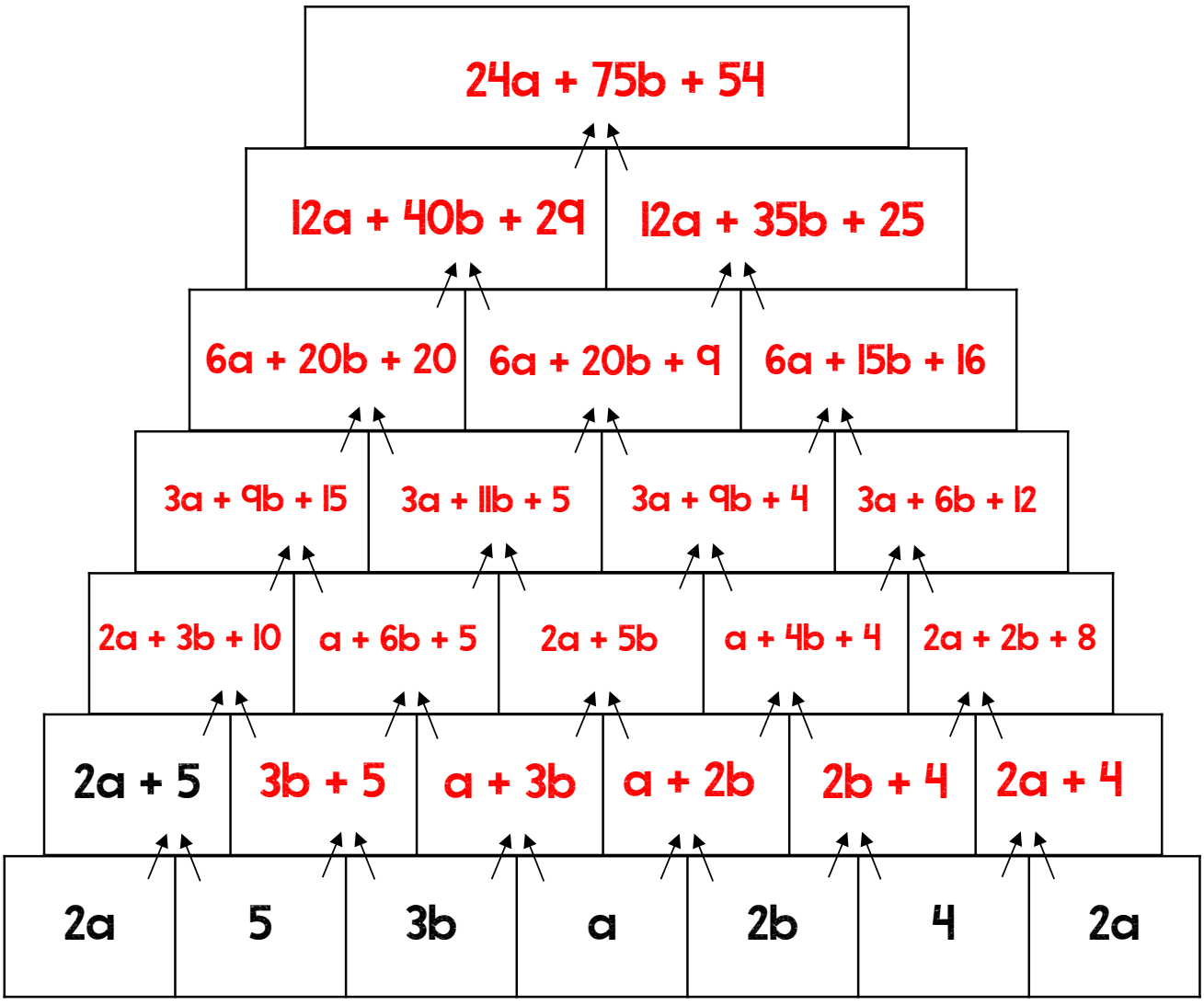
ANSWER KEY

COMBINING LIKE TERMS: HOMEWORK B

Start at the bottom and combine like terms until you reach the top. The first one at the bottom left is done for you.



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