

Collecting Like Terms

ANSWERS

1

Simplify $2x + 5 + 3x + 1$



x	number
$2x + 3x$	$5 + 1$
$5x$	6

Answer $5x + 6$

2

Simplify $x + 6 + 3x + 1$

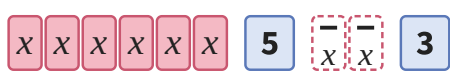


x	number
$x + 3x$	$6 + 1$
$4x$	7

Answer $4x + 7$

3

Simplify $6x + 5 - 2x + 3$



x	number
$6x - 2x$	$5 + 3$
$4x$	8

Answer $4x + 8$

4

Simplify $5x + 7 + 2x - 3$

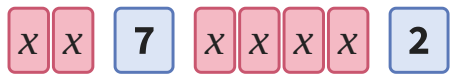


x	number
$5x + 2x$	$7 - 3$
$7x$	4

Answer $7x + 4$

5

Simplify $2x + 7 + 4x + 2$



x	number
$2x + 4x$	$7 + 2$
$6x$	9

Answer $6x + 9$

6

Simplify $6x + 9 - 2x - 4$



x	number
$6x - 2x$	$9 - 4$
$4x$	5

Answer $4x + 5$

7

Write the expression for these tiles. Then simplify it.



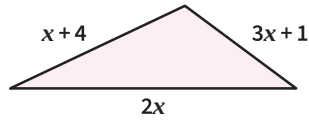
Expression $3x + 2 + 2x + 6$

x	number
$3x + 2x$	$2 + 6$
$5x$	8

Answer $5x + 8$

8

Find the perimeter. Simplify your answer.



x	number
$2x + x + 3x$	$4 + 1$
$6x$	5

Answer $6x + 5$

Collecting Like Terms *further practice*

ANSWERS

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Simplify $4x + 3 + 3x + 6$



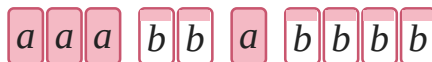
x	number
$4x + 3x$	$3 + 6$
$7x$	9

Answer $7x + 9$

10



Simplify $3a + 2b + a + 4b$



a	b
$3a + a$	$2b + 4b$
$4a$	$6b$

Answer $4a + 6b$

11



Simplify $9 + 5y - 4 + y$



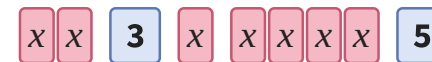
y	number
$5y + y$	$9 - 4$
$6y$	5

Answer $6y + 5$

12



Simplify $2x + 3 + x + 4x + 5$



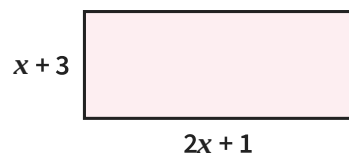
x	number
$2x + x + 4x$	$3 + 5$
$7x$	8

Answer $7x + 8$

13



This is a rectangle.
Find its perimeter.
Simplify your answer.



Add the four sides

$$2x + 1 + x + 3 + 2x + 1 + x + 3$$

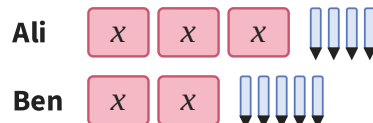
$$2x + x + 2x + x \text{ and } 1 + 3 + 1 + 3$$

Perimeter $6x + 8$

14



A box holds x pens.
Write an expression for the pens Ali and Ben have altogether.



Ali + Ben $3x + 4 + 2x + 5$

$$3x + 2x \text{ and } 4 + 5$$

$$5x \text{ and } 9$$

Pens $5x + 9$

15



Find the missing term.

$$4x + 1 + 5x + 6 = 9x + 7$$



$$9x - 4x = 5x$$

Missing term $5x$

16



Jay has made a mistake. What is it?

Jay simplifies $4x + 3 + 2x + 1$



Jay's answer: $10x$

Jay's mistake is

adding the x 's and the numbers.

They are not like terms.

The right answer is $6x + 4$