Name: _____

Equivalent Expressions
Combining Like Terms

Terms are separated by + or − signs in an expression.

Like terms may be combined according to the sign that separates them.

Constants are terms without a variable (digit alone) that may also be combined.

example: $8y$ + ③ + y + ② + ◇$4x$

$$9y + 5 + 4x$$

Draw shapes to identify like terms. Combine like terms.

ⓐ $4x + 3 + 2x + 1$

_____

ⓑ $3a + 2b + 8a + 4$

_____

ⓒ $8c + 2b + 3b + 6$

_____

ⓓ $10 + 6y + 2x + 3$

_____

ⓔ $4c + 2 + c + 1$

_____

ⓕ $3x + 2y + 7 + 2x$

_____

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Draw shapes to identify like terms. Combine like terms.

ⓐ $4x$ + ③ + $2x$ + ①

$$6x + 4$$

ⓑ $3a$ + ◇$2b$ + $8a$ + ④

$$11a + 2b + 4$$

ⓒ ◇$8c$ + $2b$ + $3b$ + ⑥

$$8c + 5b + 6$$

ⓓ ⑩ + $6y$ + ◇$2x$ + ③

$$13 + 6y + 2x$$

ⓔ $4c$ + ② + c + ①

$$5c + 3$$

ⓕ ◇$3x$ + $2y$ + ⑦ + ◇$2x$

$$5x + 2y + 7$$

KH