

Combining Like Terms and Distributive Property

Combine like terms to simplify each expression.

$$① \quad 2a + 22a$$

$$② \quad -q - 11 + 3$$

$$③ \quad 2g - g$$

$$④ \quad 9 - 5a + 2 + a$$

$$⑤ \quad a - 2 + 1 + 4a$$

$$⑥ \quad -(-1 - 6x)$$

$$⑦ \quad -2(-3 - 3p) + 1$$

$$⑧ \quad 3(1 + 2q) - 3(1 + 4q)$$

Simplify each expression using distributive property.

$$⑨ \quad 6.5(v + 1)$$

$$⑩ \quad \frac{2}{3}(6p - 9)$$

$$⑪ \quad -8(1 + 5s)$$

$$⑫ \quad -(3a - 3)$$

$$⑬ \quad -7(6y - 3)$$

$$⑭ \quad 8(7x + 8)$$

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Answers

$$① \quad 2a + 22a$$

$$24a$$

$$③ \quad 2g - g$$

$$g$$

$$⑤ \quad a - 2 + 1 + 4a$$

$$5a - 1$$

$$⑦ \quad -2(-3 - 3p) + 1$$

$$7 + 6p$$

$$⑨ \quad 6.5(v + 1)$$

$$6.5v + 6.5$$

$$⑪ \quad -8(1 + 5s)$$

$$-8 - 40s$$

$$⑬ \quad -7(6y - 3)$$

$$-42y + 21$$

$$② \quad -q - 11 + 3$$

$$q - 8$$

$$④ \quad 9 - 5a + 2 + a$$

$$11 - 4a$$

$$⑥ \quad -(-1 - 6x)$$

$$1 + 6x$$

$$⑧ \quad 3(1 + 2q) - 3(1 + 4q)$$

$$-6q$$

$$⑩ \quad \frac{2}{3}(6p - 9)$$

$$4p - 6$$

$$⑫ \quad -(3a - 3)$$

$$-3a + 3$$

$$⑭ \quad 8(7x + 8)$$

$$56x + 64$$