

Name: _____

Date: _____ Score: _____

Equivalent Algebraic Expressions

Tick the correct option

- ① Which of these expressions is equivalent to $2(8x - 2)$?
- a) $16x + 4$ b) $8x + 16$ c) $16x - 4$ d) $16x - 2$
- ② Which of these expressions is not equivalent to $2x^2$?
- a) $2 \times x \times x$ b) $x^2 \times 2$ c) $x \times 2 \times x$ d) $x \times 2$
- ③ Which of these expressions is equivalent to $3(3x + 2x) + 30$?
- a) $3(5x) + 50$ b) $3(5x + 3)$ c) $15x + 3$ d) $3 + (3x + 2x)$
- ④ Which of these expressions is equivalent to $-4(2x)$?
- a) $-8x$ b) $-2(-4x)$ c) $-4x \times 2^2$ d) $8x$
- ⑤ Which of these expressions is not equivalent to $2c + c - 1 + c$?
- a) $4c + 10$ b) $4c - 1$ c) $4c - c$ d) $-1 - 4c$
- ⑥ Which of these expressions is equivalent to $\frac{-4v}{c^2}$?
- a) $\frac{-2(2v)}{c}$ b) $\frac{-2(2v)}{c^2}$ c) $\frac{-4v}{2c}$ d) $\frac{2}{c} \times \frac{2v}{c}$

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Answers

① Which of these expressions is equivalent to $2(8x - 2)$?

a) $16x + 4$

b) $8x + 16$

c) $16x - 4$

d) $16x - 2$

② Which of these expressions is not equivalent to $2x^2$?

a) $2 \times x \times x$

b) $x^2 \times 2$

c) $x \times 2 \times x$

d) $x \times 2$

③ Which of these expressions is equivalent to $3(3x + 2x) + 30$?

a) $3(5x) + 50$

b) $3(5x + 3)$

c) $15x + 3$

d) $3 + (3x + 2x)$

④ Which of these expressions is equivalent to $-4(2x)$?

a) $-8x$

b) $-2(-4x)$

c) $-4x \times 2^2$

d) $8x$

⑤ Which of these expressions is not equivalent to $2c + c - 1 + c$?

a) $4c + 10$

b) $4c - 1$

c) $4c - c$

d) $-1 - 4c$

⑥ Which of these expressions is equivalent to $\frac{-4v}{c^2}$?

a) $\frac{-2(2v)}{c}$

b) $\frac{-2(2v)}{c^2}$

c) $\frac{-4v}{2c}$

d) $\frac{2}{c} \times \frac{2v}{c}$