

SOL Warm-Up

Graphing Calculator Active

A.3a Simplifying expressions using order of operations

1. Which of the following represents $11^2 + 18 - 3^3 \cdot 5$ in simplified form?

- A - 3,236
- B 4
- C 107
- D 16,996

2. Which of the following represents $18 - (12 - 7)^2$ in simplified form ?

- A - 2
- B 8
- C 13
- D 18

3. Which of the following represents $16 - 2(10 - 3)$ in simplified form ?

- A 2
- B 6
- C 12
- D 18

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A.3b Simplifying expressions using order of operations

1. Simplify: $10 + 5 \cdot 2^3$

- A** 50
- B** 140
- C** 840
- D** 1100

2. Simplify: $6^2 - 2 \frac{14 - 5}{3}^2$

- A** 0
- B** 18
- C** 204
- D** 306

3. Simplify: $24 - 6 \cdot 2 \cdot 2$

- A** 4
- B** 10
- C** 18
- D** 40

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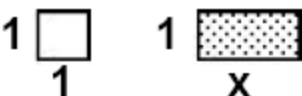
A.3c Simplifying expressions


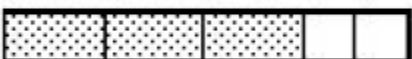


- Which of the following is the simplified form of $-4x + 7x$?
 - 4
 - $-3x$
 - $3x$
 - 4

- Which of the following is the simplified form of $5x - 4 - 7x + 14$?
 - $-12x + 10$
 - $-2x + 10$
 - $2x - 18$
 - $12x - 18$

- Which of the following is the simplified form of $-5 + 2n - 6 - n$?
 - $-11 + n$
 - $-11 + 3n$
 - $1 - n$
 - $1 + n$

- Which figure below models the simplification of $-4x - 5 + 7x + 7$ using these tiles?



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A.3d Simplifying expressions

1. Which of the following is the simplified form of $-3 - 3m - 5 - m$?
A $-8 - 4m$
B $-8 + 4m$
C $-2 + 4m$
D $2 - 4m$

2. Which of the following is the simplified form of $2p - 7s - 5p + 8s$?
A $-3p + 15s$
B $-3p - s$
C $-3p + s$
D $3p - 15s$

3. Which of the following is the simplified form of $-3 - 5x - 5y + 8x + 7y + 8$?
A $-3x - 2y - 5$
B $3x - 2y + 5$
C $3x + 2y + 5$
D $13x + 12y + 5$

4. Which of the following is the simplified form of $a + 3a - 4(9 - a)$?
A -36
B $3a - 36$
C $8a - 36$
D $8a + 36$

1. If a triangle has sides $3x - 2$, $5 - x$ and $2x - 5$, what is the perimeter of the triangle?
A $4x - 2$
B $4x + 2$
C $5x - 2$
D $5x - 7$

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A.3e Simplifying expressions

- Which property would justify rewriting the following expression without parentheses? $3(2x + 5y)$
 - Associative property of multiplication
 - Distributive property
 - Addition property of zero
 - Commutative property of multiplication
- Which property would justify the following statement? $8x + 4 = 4 + 8x$
 - Associative property of addition
 - Distributive property
 - Addition property of zero
 - Commutative property of addition
- Which property would justify the following statement?
 $8 + (2 + 6) = (8 + 2) + 6$
 - Associative property of addition
 - Distributive property
 - Addition property of zero
 - Commutative property of addition
- Which statement demonstrates the distributive property **incorrectly**?
 - $3(x + y + z) = 3x + 3y + 3z$
 - $(a + b) c = ac + bc$
 - $5(2 + 3x) = 10 + 3x$
 - $6(3k - 4) = 18k - 24$