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6.EE.A.2 Order of Operations – PEMDAS

6.EE.A.2 Write, read, and evaluate expressions in which letters stand for numbers.

1. Simplify: $50 - [4(7 + 2)]$

2. $(20 \times 7) \div 5$

3. $\dfrac{88 + 124}{4}$

4. Which of the following expressions has a value of 28?

   [A] $3 \times 5 + 6 \times (2 + 1)$

   [B] $(3 \times 5) + 6 \times (2 + 1)$

   [C] $(3 \times 5) + (6 \times 2) + 1$

   [D] $3 \times (5 + 6) \times 2 + 1$

5. The value of $2 \times (12 - 3) + 1$ is the SAME as

   [A] $4 \times 2 + 6 - 12$ [B] $1 + (5 + 4) \times 2$

   [C] $(2 \times 12) - 3 + 1$ [D] $9 + 1 \times 2$

6. Write the missing operation signs to make the following statement true.

   $(5.6 \ ? \ 1.4) \ ? \ 2 = 14$

   [A] $(5.6 + 1.4) - 2 = 14$

   [B] $(5.6 \times 1.4) \div 2 = 14$

   [C] $(5.6 \times 1.4) + 2 = 14$

   [D] $(5.6 + 1.4) \times 2 = 14$

7. Write the missing operation signs to make the following statement true.

   $6.4 \ ? \ 8.1 \ ? \ 2.4 = -13.04$

   [A] $6.4 - 8.1 \times 2.4 = -13.04$

   [B] $6.4 \times 8.1 - 2.4 = -13.04$

   [C] $6.4 \times 8.1 \div 2.4 = -13.04$

   [D] $6.4 - 8.1 + 2.4 = -13.04$

8. Write the missing operation signs to make the following statement true.

   $1.7 \ ? \ 9.6 \ ? \ 4.8 = 21.12$

   [A] $1.7 - 9.6 + 4.8 = 21.12$

   [B] $1.7 \times 9.6 + 4.8 = 21.12$

   [C] $1.7 + 9.6 \times 4.8 = 21.12$

   [D] $1.7 \times 9.6 \div 4.8 = 21.12$

9. Isabelle had 3 dozen pencils. Then she lost 8 pencils. Now how many pencils does she have?

10. Write an expression that includes addition, subtraction, division, and exponents. Simplify your expression.

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Answer Key

6.EE.A.2 Write, read, and evaluate expressions in which letters stand for numbers.

[1] 14

[2] 28

[3] 53

[4] C

[5] B

[6] D

[7] A

[8] B

[9] 28 pencils

[10] Answers may vary. Sample:
$2^2 + 5 - 2 \div 3 = 5$