

Mid-Chapter Checkpoint



Personal Math Trainer
Online Assessment
and Intervention

Vocabulary

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|-------------------------|
| equation |
| inverse operations |
| solution of an equation |

Choose the best term from the box to complete the sentence.

- A(n) _____ is a statement that two mathematical expressions are equal. (p. 421)
- Adding 5 and subtracting 5 are _____. (p. 439)

Concepts and Skills

Write an equation for the word sentence. (6.EE.B.7)

- The sum of a number and 4.5 is 8.2.

- Three times the cost is \$24.

Determine whether the given value of the variable is a solution of the equation. (6.EE.B.5)

- $x - 24 = 58$; $x = 82$

- $\frac{1}{3}c = \frac{3}{8}$; $c = \frac{3}{4}$

Solve the equation, and check the solution. (6.EE.B.7)

- $a + 2.4 = 7.8$

- $b - \frac{1}{4} = 3\frac{1}{2}$

- $3x = 27$


- $\frac{1}{3}s = \frac{1}{5}$

- $\frac{t}{4} = 16$

- $\frac{w}{7} = 0.3$

13. A stadium has a total of 18,000 seats. Of these, 7,500 are field seats, and the rest are grandstand seats. Write an equation that could be used to find the number of grandstand seats s . (6.EE.B.7)
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14. Aaron wants to buy a bicycle that costs \$128. So far, he has saved \$56. The equation $a + 56 = 128$ can be used to find the amount a in dollars that Aaron still needs to save. What is the solution of the equation? (6.EE.B.7)
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15.  Ms. McNeil buys 2.4 gallons of gasoline. The total cost is \$7.56. Write and solve an equation to find the price p in dollars of one gallon of gasoline. (6.EE.B.7)
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16. Crystal is picking blueberries. So far, she has filled $\frac{2}{3}$ of her basket, and the blueberries weigh $\frac{3}{4}$ pound. The equation $\frac{2}{3}w = \frac{3}{4}$ can be used to estimate the weight w in pounds of the blueberries when the basket is full. About how much will the blueberries in Crystal's basket weigh when it is full? (6.EE.B.7)
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