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OUTSTANDING resources

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OUTSTANDING resources

Lesson Objective: By the end of this lesson you should be able to solve linear equations confidently at one of the levels below. The question is at which one?

Easy

Solve the following equations (I.e. x = ?)

1. $4x = 32$
2. $8t = 56$
3. $12a = 24$
4. $9w = 27$
5. $13p = 169$
6. $7r = 91$
7. $\frac{x}{2} = 15$
8. $\frac{a}{6} = 12$

Developing

Solve the following equations (I.e. x = ?)

1. $x + 8 = 24$
2. $3p + 14 = 41$
3. $7y + 22 = 71$
4. $9z + 14 = 50$
5. $4k - 11 = 37$
6. $5m - 13 = 47$
7. $6b - 13 = 59$
8. $12h - 4 = 2$
9. $\frac{x}{2} + 13 = 15$
10. $\frac{t}{4} - 6 = 4$

Medium

Solve the following equations (I.e. x = ?)

1. $8x + 2 = 4x + 10$
2. $14x + 4 = 5x + 31$
3. $5x + 6 = 2x + 45$
4. $12a + 4 = 5a + 60$
5. $5b - 2 = 2b + 7$
6. $8m - 14 = 3m + 46$
7. $5z - 12 = 2z + 15$
8. $6h - 10 = 4h - 6$
9. $7y - 20 = 2y - 10$
10. $16f - 14 = 9f - 7$
11. $4(2x - 3) = 8(2x + 5)$
12. $3(4x - 5) = 5(2x - 5)$

Hard

Solve the following equations (I.e. x = ?)

1. $x + 12 = \frac{1}{2}x + 20$
2. $5x + 7 = \frac{2}{3}x + 20$
3. $\frac{3}{4}b + 4 = \frac{2}{4}b + 10$
4. $\frac{2}{5}a + 4 = \frac{5}{6}a + 2$

Self Evaluation: What level would you assess yourself? What have you learned today? How did you learn? Do you feel you have met the objective of the lesson?

ANSWERS

Level 4

1. x =8
2. t = 7
3. a = 2
4. w = 3
5. p = 13
6. r = 13
7. x = 30
8. a = 72

Level 5

1. x = 16
2. p = 9
3. y = 7
4. z = 4
5. k = 12
6. m =12
7. b = 12
8. h = 0.5
9. x = 4
10. t = 40

Level 6

1. x = 2
2. x = 3
3. x =13
4. a = 8
5. b = 3
6. m = 12
7. z = 9
8. h = 2
9. y = 2
10. f = 1
11. x = -6.5
12. x = -5

Level 7

1. x = 16
2. x = 3
3. x = 24
4. a = 4 8/13