HANDS-ON EQUATIONS®

Lesson #23 ***Name:*** _____

Classwork Sheet ***Grade:*** _____

Use your Hands-On Equations Kit to solve:

New Work

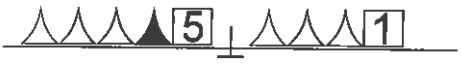
1. $3x - 2(\ast + 4) = 2x + 1$ $x =$ $\ast =$ *Check:* _____

2. $\ast - 2(2x + 1) = 3\ast + (-10)$ $x =$ $\ast =$ *Check:* _____

3. $2x + \ast - 2(x + 4) = 3x$ $x =$ $\ast =$ *Check:* _____

4. $x - (3\ast + 1) = \ast - 6$ $x =$ $\ast =$ *Check:* _____

Previous Work

5. 

$x =$ $\ast =$ *Check:* _____

6. $5 + x + 3\ast = 3x - 2x - 1$ $x =$ $\ast =$ *Check:* _____

7. $2(-x) + x + 2(-x + 2) = x$ $x =$ $-x =$ *Check:* _____

8. $x - 2\ast - x - 3 = \ast + 9$ $x =$ $\ast =$ *Check:* _____

9. $3\ast - (-5) + 2x = x - 5$ $x =$ $\ast =$ *Check:* _____

10. $2(\ast - 8) + x = 2x + \ast - 4$ $x =$ $\ast =$ *Check:* _____

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Note: $\ast$ is the opposite of x. Together, they are worth zero.

HANDS-ON EQUATIONS®

Lesson #24 ***Name:*** _____

Classwork Sheet ***Grade:*** _____

Use your Hands-On Equations Kit to solve:

New Work

1. $2x - 3(-x) - 5 = 7 + (-x)$ $x =$ $-x =$ *Check:* _____

2. $3(-x) - (-2 + x) = 2x - 4$ $x =$ $-x =$ *Check:* _____

3. $2(-x + 8) - (-3) = 2x + 3$ $x =$ $-x =$ *Check:* _____

4. $2(-x + 3x) + 3(-x) + 7 = (-x) + (-3)$

   $x =$ $-x =$ *Check:* _____

Previous Work

5. $3x + 4x - x = 2x + 24$ $x =$ *Check:* _____

6. $x =$ $\varkappa =$ *Check:* _____

7. $2x + 3\varkappa - 5 = 2x + 10$ $x =$ $\varkappa =$ *Check:* _____

8. $4x - \varkappa + 3\varkappa = 3\varkappa - (-10)$ $x =$ $\varkappa =$ *Check:* _____

9. $3(-x) - 2(-x) + x = 2x + 10$ $x =$ $-x =$ *Check:* _____

10. $2x - 3(\varkappa + 3) = 2(\varkappa - 1)$ $x =$ $\varkappa =$ *Check:* _____

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Note: $\varkappa$ is the opposite of x. Together, they are worth zero.