

Name: _____

Target Teacher: _____

Homeroom Teacher: _____

Hands-On Equations

Level 2



4th Grade

- This packet contains Classwork Sheets and Extra Practice for Lessons 8-16.
- It is very important that you only do the work that is assigned to you – do not work ahead.
- Support videos are available for each lesson. They are posted on the Target website: www.mbestartget.wix.com/gifted under the Student Resources tab.
- Please keep this entire packet in your Target binder, and bring it each day to Target. Replacement copies will not be provided.

HANDS-ON EQUATIONS®

Lesson #8
Classwork Sheet

Name: _____
Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1. $\triangle \triangle \triangle \boxed{2} \perp \triangle \triangle \boxed{8}$

$x =$ Check: _____

2. $3x - x = x + 9$

$x =$ Check: _____

3. $5 + 2x + x = 3x - x + 8$

$x =$ Check: _____

4. $2(5 + 2x) = 18 + 3x$

$x =$ Check: _____

Previous Work

5. $\blacktriangle \blacktriangle \blacktriangle \perp \boxed{10} \boxed{10} \boxed{1}$

$x =$ Check: _____

6. $\blacktriangle \blacktriangle \blacktriangle \perp \boxed{10} \boxed{4} \blacktriangle$

$x =$ Check: _____

7. $4x + 3 = x + 21$

$x =$ Check: _____

8. $5 + x + 3x - x = 2x + 9 - x$

$x =$ Check: _____

9. $2(3x + 1) = 8$

$x =$ Check: _____

10. $2(2x + 2) = x + 10$

$x =$ Check: _____

HANDS-ON EQUATIONS[®]

Lesson #8

Name: _____

Extra Practice

Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1. $\triangle \triangle \triangle \boxed{2} \perp \triangle \triangle \boxed{7}$ _____

$x =$ Check: _____

2. $3x - x = x + 7$

$x =$ Check: _____

3. $3 + 2x + x = 2x - x + 7$

$x =$ Check: _____

4. $2(4 + 3x) = 24 + 2x$

$x =$ Check: _____

Previous Work

5. $\blacktriangle \blacktriangle \blacktriangle \blacktriangle \perp \boxed{10} \boxed{10} \boxed{8}$ _____

$x =$ Check: _____

6. $\blacktriangle \blacktriangle \blacktriangle \perp \boxed{9} \blacktriangle \blacktriangle$ _____

$x =$ Check: _____

7. $5x + 4 = x + 28$

$x =$ Check: _____

8. $6 + x + 4x - x = 2x + 12 - x$

$x =$ Check: _____

9. $2(2x + 2) = 20$

$x =$ Check: _____

10. $2(3x + 1) = x + 17$

$x =$ Check: _____

HANDS-ON EQUATIONS[®]

Lesson #9 Classwork Sheet

Name: _____
Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1. If $x = 2$, evaluate: $\blacktriangle \blacktriangle \triangle \boxed{5} \perp$ Ans. _____

2. If $x = 3$, evaluate: $x + 2x + 2x + 7$ Ans. _____

3. If $x = -2$, evaluate: $3x + x + 10 + 3x$ Ans. _____

4. If $x = -5$, evaluate: $2x + 4x - x + 1$ Ans. _____

Previous Work

5. $\blacktriangle \blacktriangle \boxed{4} \perp \blacktriangle \blacktriangle \blacktriangle \boxed{3}$ $x =$ Check: _____

6. $3x + 4 = 2x + 10$ $x =$ Check: _____

7. $x + x + x + 1 = x + 17$ $x =$ Check: _____

8. $3x + x - 2x + 7 = x + 15$ $x =$ Check: _____

9. $2x + x + x + 9 = x + 2x + 12$ $x =$ Check: _____

10. $3(x + 1) = 10 + 2x$ $x =$ Check: _____

HANDS-ON EQUATIONS[®]

Lesson #9

Name: _____

Extra Practice

Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1. If $x = 4$, evaluate: $\triangle \triangle \triangle \triangle \boxed{7} \perp$ Ans. _____

2. If $x = 6$, evaluate: $x + 4x + 4x + 3$ Ans. _____

3. If $x = -5$, evaluate: $6x + x + 8 + 6x$ Ans. _____

4. If $x = -3$, evaluate: $4x + 6x - x + 2$ Ans. _____

Previous Work

5. $\triangle \triangle \boxed{7} \perp \triangle \triangle \triangle \triangle \boxed{3}$ $x =$ Check: _____

6. $5x + 3 = 3x + 19$ $x =$ Check: _____

7. $x + x + 3 + x + x = 2x + 21$ $x =$ Check: _____

8. $4x + 2x - x + 1 = x + 17$ $x =$ Check: _____

9. $x + 1 + 2x + x = x + 2x + 10$ $x =$ Check: _____

10. $3(x + 2) = 12 + 2x$ $x =$ Check: _____

HANDS-ON EQUATIONS[®]

Lesson #10
Classwork Sheet

Name: _____
Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1. $\perp$ $x =$ $\text{⌘} =$ Check: _____

2. $3\text{⌘} = x + \text{⌘} + 9$ $x =$ $\text{⌘} =$ Check: _____

3. $3\text{⌘} + x = \text{⌘} + 6$ $x =$ $\text{⌘} =$ Check: _____

4. $x + \text{⌘} + 4x = 16 + 2x$ $x =$ $\text{⌘} =$ Check: _____

Previous Work

5. $\perp$ $x =$ Check: _____

6. $5 + 3x + x = x + x + x + 9$ $x =$ Check: _____

7. $7x - 4x + 2x + 5 = 2x + 14$ $x =$ Check: _____

8. $3(2x + 1) = 13 + x$ $x =$ Check: _____

9. If $x = 4$, evaluate: $3x + 4\text{⌘} + 5$ Ans. _____

10. $2\text{⌘} + 3\text{⌘} + 1 = \text{⌘} + 11 + 3\text{⌘} - \text{⌘}$ $x =$ $\text{⌘} =$ Check: _____

HANDS-ON EQUATIONS[®]

Lesson #10

Name: _____

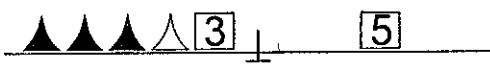
Extra Practice

Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1.  $x =$ $\text{x} =$ Check: _____

2. $4\text{x} = x + \text{x} + 8$ $x =$ $\text{x} =$ Check: _____

3. $5\text{x} + x = \text{x} + 9$ $x =$ $\text{x} =$ Check: _____

4. $2x + 2\text{x} + 3x = 13 + 2x$ $x =$ $\text{x} =$ Check: _____

Previous Work

5.  $x =$ Check: _____

6. $8 + 4x + x = x + x + x + 16$ $x =$ Check: _____

7. $6x - 3x + x + 7 = 3x + 16$ $x =$ Check: _____

8. $3(2x + 1) = x + 8$ $x =$ Check: _____

9. If $x = 7$, evaluate: $4x + 5\text{x} + 9$ Ans. _____

10. $\text{x} + 3\text{x} + 2 = 2\text{x} + 10 + 2\text{x} - \text{x}$ $x =$ $\text{x} =$ Check: _____

HANDS-ON EQUATIONS[®]

Lesson #11 Classwork Sheet

Name: _____
Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1. $\triangle \triangle \perp \blacktriangle \boxed{9}$ $x =$ $\text{\textcancel{x}} =$ Check: _____

2. $2x + 4 = 2\text{\textcancel{x}}$ $x =$ $\text{\textcancel{x}} =$ Check: _____

3. $x = \text{\textcancel{x}} + 4$ $x =$ $\text{\textcancel{x}} =$ Check: _____

4. $3x = 10 + 2\text{\textcancel{x}}$ $x =$ $\text{\textcancel{x}} =$ Check: _____

Previous Work

5. $\blacktriangle \blacktriangle \blacktriangle \boxed{1} \perp \blacktriangle \blacktriangle \boxed{2}$ $x =$ Check: _____

6. $4x + 2x + 1 = 2x - x + 21$ $x =$ Check: _____

7. $2(2x) + 10 = 3x + 13$ $x =$ Check: _____

8. If $\text{\textcancel{x}} = -3$, evaluate: $2\text{\textcancel{x}} + x + 2x + 5$ Ans. _____

9. $2(2\text{\textcancel{x}} + 1) + \text{\textcancel{x}} = \text{\textcancel{x}} + 2\text{\textcancel{x}} + 18$ $\text{\textcancel{x}} =$ Check: _____

10. $2x + \text{\textcancel{x}} + 2x = 10 + x$ $x =$ $\text{\textcancel{x}} =$ Check: _____

HANDS-ON EQUATIONS[®]

Lesson #11

Name: _____

Extra Practice

Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1. $\triangle \triangle \triangle \perp \blacktriangle \boxed{8}$

$x =$ $\times =$ Check: _____

2. $2x + 6 = 4x$

$x =$ $\times =$ Check: _____

3. $4x = 2x + 18$

$x =$ $\times =$ Check: _____

4. $5x = 8 + 3x$

$x =$ $\times =$ Check: _____

Previous Work

5. $\blacktriangle \blacktriangle \blacktriangle \boxed{3} \perp \blacktriangle \blacktriangle \boxed{9}$

$x =$ Check: _____

6. $3x + x + 3 = 4x - x + 10$ $x =$

Check: _____

7. $3(2x) + 4 = 2x + 24$ $x =$

Check: _____

8. If $\times = -4$, evaluate: $3x + 2x + 3x + 10$

Ans. _____

9. $2(2x + 3) + x = 2x + x + 16$ $\times =$

Check: _____

10. $3x + 2x + 2x = 18 + x$ $x =$ $\times =$

Check: _____

HANDS-ON EQUATIONS[®]

Lesson #12
Classwork Sheet

Name: _____
Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1. $\triangle \triangle \triangle + \blacktriangle \boxed{10} \boxed{6}$

$x =$ $\times =$ Check: _____

2. $3x + 15 = 2x$

$x =$ $\times =$ Check: _____

3. $x = \times + 24$

$x =$ $\times =$ Check: _____

4. $\times + 2x + 8 = x$

$x =$ $\times =$ Check: _____

Previous Work

5. $3x + x - 2x + 8 = 3x + x$ $x =$

Check: _____

6. $2(2x + 4) - 2x = x + 18$ $x =$

Check: _____

7. If $x = 5$, evaluate: $2(x + 3) + 3x$

Ans. _____

8. $3(2x) - 3x + 4 = 2x + 5$

$\times =$ Check: _____

9. $3x + 2x + x = x + 6$

$x =$ $\times =$ Check: _____

10. $2(x + 4) + x = 16$

$x =$ $\times =$ Check: _____

HANDS-ON EQUATIONS®

Lesson #12

Name: _____

Extra Practice

Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1. $\triangle \triangle \triangle \perp \blacktriangle 10 \square 2$

$x =$

$\text{x} =$

Check: _____

2. $4x + 14 = 3\text{x}$

$x =$

$\text{x} =$

Check: _____

3. $3x = 3\text{x} + 30$

$x =$

$\text{x} =$

Check: _____

4. $\text{x} + 3\text{x} + 20 = x$

$x =$

$\text{x} =$

Check: _____

Previous Work

5. $4x + x - 3x + 7 = 2x + x$ $x =$

Check: _____

6. $2(3x + 4) - 2x = x + 17$ $x =$

Check: _____

7. If $x = 7$, evaluate: $2(x + 8) + 4\text{x}$

Ans. _____

8. $4(2\text{x}) - 3\text{x} + 1 = 2\text{x} + 22$

$\text{x} =$

Check: _____

9. $4x + 2\text{x} + x = 2x + 12$

$x =$

$\text{x} =$

Check: _____

10. $2(x + 5) + \text{x} = 21$

$x =$

$\text{x} =$

Check: _____

HANDS-ON EQUATIONS®

Lesson #13
Classwork Sheet

Name: _____
Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1. $\triangle \triangle \triangle \boxed{2} \perp \blacktriangle \boxed{10} \boxed{4}$ $x =$ $\text{\texttimes} =$ Check: _____

2. $x + 14 = \text{\texttimes} + 2$ $x =$ $\text{\texttimes} =$ Check: _____

3. $x + 10 = 3\text{\texttimes} + 2$ $x =$ $\text{\texttimes} =$ Check: _____

4. $2\text{\texttimes} + x + 1 = 3x + 5$ $x =$ $\text{\texttimes} =$ Check: _____

Previous Work

5. $4x - x + 3 = 2x + 11$ $x =$ Check: _____

6. $2(3x) + 1 = 2x + 21$ $x =$ Check: _____

7. If $\text{\texttimes} = -2$, evaluate: $3\text{\texttimes} - 2\text{\texttimes} + 2x + 4$ Ans. _____

8. $2(\text{\texttimes} + 3) + 3\text{\texttimes} = 2\text{\texttimes} + 15$ $\text{\texttimes} =$ Check: _____

9. $4x + 2\text{\texttimes} + 5 = x + 13$ $x =$ $\text{\texttimes} =$ Check: _____

10. $2x = \text{\texttimes} + 30$ $x =$ $\text{\texttimes} =$ Check: _____

HANDS-ON EQUATIONS®

Lesson #13

Name: _____

Extra Practice

Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1. $\triangle \triangle \triangle \boxed{4} + \blacktriangle \boxed{10} \boxed{10}$ $x =$ $\text{\texttimes} =$ Check: _____

2. $x + 18 = \text{\texttimes} + 4$ $x =$ $\text{\texttimes} =$ Check: _____

3. $x + 13 = 2\text{\texttimes} + 4$ $x =$ $\text{\texttimes} =$ Check: _____

4. $3\text{\texttimes} + 2x + 2 = 4x + 12$ $x =$ $\text{\texttimes} =$ Check: _____

Previous Work

5. $5x - 2x + 6 = x + 16$ $x =$ Check: _____

6. $3(2x) + 3 = 2x + 7$ $x =$ Check: _____

7. If $\text{\texttimes} = -3$, evaluate: $4\text{\texttimes} - 2\text{\texttimes} + 3x + 15$ Ans. _____

8. $2(\text{\texttimes} + 5) + 4\text{\texttimes} = 2\text{\texttimes} + 14$ $\text{\texttimes} =$ Check: _____

9. $6x + 3\text{\texttimes} + 4 = x + 20$ $x =$ $\text{\texttimes} =$ Check: _____

10. $4x = 3\text{\texttimes} + 28$ $x =$ $\text{\texttimes} =$ Check: _____

HANDS-ON EQUATIONS[®]

Lesson #14 Classwork Sheet

Name: _____
Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1. $3x - x = 12$ $x =$ $x =$ Check: _____

2. $2x - x = 2x + 10$ $x =$ $x =$ Check: _____

3. $x - 2x + 9 = x + 1$ $x =$ $x =$ Check: _____

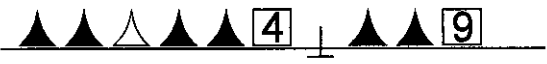
4. $x - 3x + 10 = x + 4$ $x =$ $x =$ Check: _____

Previous Work

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

6. $2(3x + 4) - 2x = x + 20$ $x =$ Check: _____

7. If $x = -1$, evaluate: $3x + 2x + 4 + 2x$ Ans. _____

8.  $x =$ $x =$ Check: _____

9. $x + 2x + x = 2x + 4$ $x =$ $x =$ Check: _____

10. $4x + x + 1 = 2x + 16$ $x =$ $x =$ Check: _____

HANDS-ON EQUATIONS[®]

Lesson #14

Name: _____

Extra Practice

Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1. $4x - x = 15$ $x =$ $x =$ Check: _____

2. $3x - x = 3x + 11$ $x =$ $x =$ Check: _____

3. $x - 4x + 7 = x + 1$ $x =$ $x =$ Check: _____

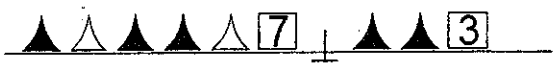
4. $2x - 4x + 6 = x + 3$ $x =$ $x =$ Check: _____

Previous Work

5. $6x + 4 = 3x + 19$ $x =$ Check: _____

6. $2(2x + 5) - 3x = 2x + 9$ $x =$ Check: _____

7. If $x = -2$, evaluate: $5x + 3x + 6 + 3x$ Ans. _____

8.  $x =$ $x =$ Check: _____

9. $x + 3x + x = 3x + 30$ $x =$ $x =$ Check: _____

10. $5x + 2x + 9 = 3x + 15$ $x =$ $x =$ Check: _____

HANDS-ON EQUATIONS[®]

Lesson #15
Classwork Sheet

Name: _____
Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1. $3(-x) + (-x) = 9 + (-x)$ $-x =$ *Check:* _____

2. $4(-x) - 2(-x) + 2 = 9 + (-x)$ $-x =$ *Check:* _____

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

4. $3x - (-x) + 4 = 2(-x) + 10$ $x =$ $-x =$ *Check:* _____

Previous Work

5. $2(3x) = 2x + 16$ $x =$ *Check:* _____

6. $2(2x + 1) + x = 2x + 17$ $x =$ *Check:* _____

7. *If $x=2$, evaluate:* $2x + 3x + x + 10$ *Ans.* _____

8.  $x =$ $x =$ *Check:* _____

9. $4x + x + 2 = 2x + 12$ $x =$ $x =$ *Check:* _____

10. $2x - 3x + 5 = 2x - x + 15$ $x =$ $x =$ *Check:* _____

HANDS-ON EQUATIONS[®]

Lesson #15

Name: _____

Extra Practice

Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1. $4(-x) + (-x) = 12 + (-x)$ $-x =$ Check: _____

2. $5(-x) - 3(-x) + 3 = 12 + (-x)$ $-x =$ Check: _____

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

4. $4x - (-x) + 5 = 2(-x) + 19$ $x =$ $-x =$ Check: _____

Previous Work

5. $3(2x) = 2x + 28$ $x =$ Check: _____

6. $2(2x + 5) + x = 3x + 20$ $x =$ Check: _____

7. If $x = 3$, evaluate: $3x + 4x + 2x + 19$ Ans. _____

8.  $x =$ $x =$ Check: _____

9. $5x + 3x + 5 = 4x + 17$ $x =$ $x =$ Check: _____

10. $2x - 4x + 7 = 2x - x + 16$ $x =$ $x =$ Check: _____

HANDS-ON EQUATIONS[®]

Lesson #16 Classwork Sheet

Name: _____
Grade: _____

New Work



Use the pictorial system to solve these problems:

1. $2x + x + 5 = 2x$ $x =$ $x =$ Check: _____

2. $3x + x + 2 = 2x + 10$ $x =$ $x =$ Check: _____

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

4. $2(x + 3) + 5x = x + 20$ $x =$ $x =$ Check: _____

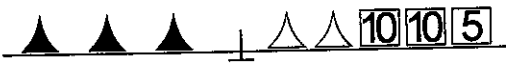
Previous Work



Use your Hands-On Equations Kit to solve:

5. $5x + x = 2x + 24$ $x =$ Check: _____

6. $2(x + 4) + 3x = 2x$ $x =$ $x =$ Check: _____

7.  $x =$ $x =$ Check: _____

8. $5x - 2x - 3x = 3x + 7$ $x =$ $x =$ Check: _____

9. $2x + 3x = 3x + 20$ $x =$ $x =$ Check: _____

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

HANDS-ON EQUATIONS[®]

Lesson #16

Name: _____

Extra Practice

Grade: _____

New Work



Use the pictorial system to solve these problems:

1. $3x + 2x + 10 = 3x$ $x =$ $x =$ Check: _____

2. $4x + 2x + 3 = 3x + 13$ $x =$ $x =$ Check: _____

3. $x - 4x + 6 = 3x + 2x$ $x =$ $x =$ Check: _____

4. $2(x + 4) + 4x = x + 12$ $x =$ $x =$ Check: _____

Previous Work



Use your Hands-On Equations Kit to solve:

5. $4x + 2x = x + 25$ $x =$ Check: _____

6. $2(x + 3) + 4x = 3x$ $x =$ $x =$ Check: _____

7. $\triangle \triangle \triangle \triangle \perp \triangle \boxed{10} \boxed{10} \boxed{5} \boxed{5}$ $x =$ $x =$ Check: _____

8. $6x - x - 3x = 3x + 12$ $x =$ $x =$ Check: _____

9. $4x + x = 2x + 25$ $x =$ $x =$ Check: _____

10. $4x + 3(-x) + x + 5 = x + 7$ $x =$ $x =$ Check: _____