

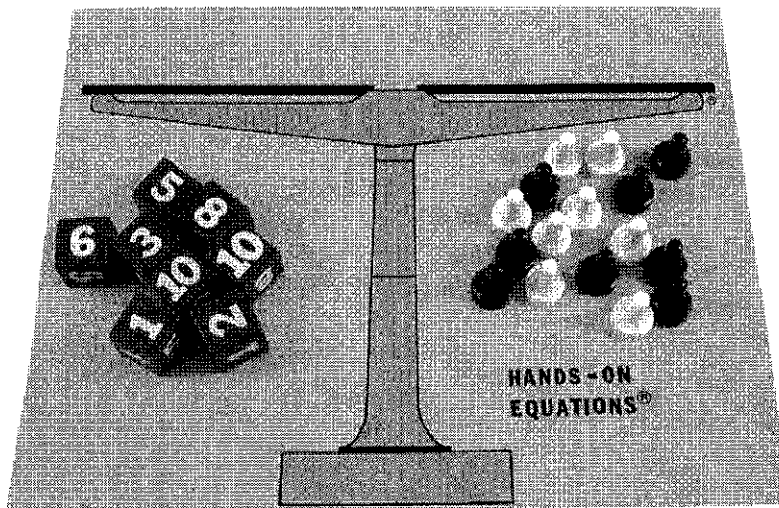
Name: _____

Target Teacher: _____

Homeroom Teacher: _____

Hands-On Equations

Level 1



3rd Grade

- This packet contains Classwork Sheets and Extra Practice for Lessons 1 - 7.
- 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 #1
Classwork Sheet

Name: _____
Grade: _____



Find the value of the pawn in each of the following problems, and write the check:

1. $\triangle \triangle \perp \boxed{10}$

$x =$ Check: _____

2. $\triangle \boxed{2} \perp \boxed{9}$

$x =$ Check: _____

3. $\triangle \triangle \boxed{3} \perp \boxed{7}$

$x =$ Check: _____

4. $\triangle \boxed{8} \perp \triangle \triangle \triangle$

$x =$ Check: _____

5. $\triangle \triangle \boxed{2} \perp \boxed{4}$

$x =$ Check: _____

6. $\triangle \boxed{8} \perp \boxed{10} \boxed{4}$

$x =$ Check: _____

7. $\triangle \triangle \perp \boxed{4} \triangle$

$x =$ Check: _____

8. $\triangle \triangle \triangle \boxed{2} \perp \boxed{7} \boxed{7}$

$x =$ Check: _____

9. $\triangle \triangle \boxed{4} \perp \triangle \boxed{10}$

$x =$ Check: _____

10. $\triangle \triangle \triangle \perp \triangle \boxed{10} \boxed{2}$

$x =$ Check: _____

HANDS-ON EQUATIONS®

Lesson #1
Extra Practice

Name: _____
Grade: _____

 Find the value of the pawn in each of the following problems, and write the check:

1. $\triangle \triangle \perp \boxed{6}$

$x =$ Check: _____

2. $\triangle \boxed{8} \perp \boxed{7} \boxed{6}$

$x =$ Check: _____

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

$x =$ Check: _____

4. $\triangle \boxed{6} \perp \triangle \triangle \triangle$

$x =$ Check: _____

5. $\triangle \triangle \boxed{2} \perp \boxed{10}$

$x =$ Check: _____

6. $\triangle \boxed{6} \perp \boxed{10} \boxed{3}$

$x =$ Check: _____

7. $\triangle \triangle \perp \boxed{9} \triangle$

$x =$ Check: _____

8. $\triangle \triangle \triangle \boxed{1} \perp \boxed{10} \boxed{6}$

$x =$ Check: _____

9. $\triangle \triangle \boxed{5} \perp \triangle \boxed{8}$

$x =$ Check: _____

10. $\triangle \triangle \triangle \perp \triangle \boxed{9} \boxed{7}$

$x =$ Check: _____

HANDS-ON EQUATIONS[®]

Lesson #2
Classwork Sheet

Name: _____
Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

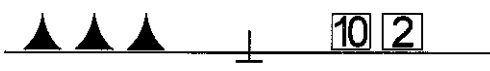
1. $2x = x + 3$ $x =$ Check: _____

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

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

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

Previous Work

5.  $x =$ Check: _____

6.  $x =$ Check: _____

7.  $x =$ Check: _____

8.  $x =$ Check: _____

9.  $x =$ Check: _____

10.  $x =$ Check: _____

HANDS-ON EQUATIONS®

Lesson #2

Name: _____

Extra Practice

Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1. $2x = x + 7$

$x =$ Check: _____

2. $3x = x + 10$

$x =$ Check: _____

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

$x =$ Check: _____

4. $4x = 2x + 18$

$x =$ Check: _____

Previous Work

5. $\triangle \triangle \triangle \perp \boxed{10} \boxed{8}$

$x =$ Check: _____

6. $\triangle \triangle \boxed{2} \perp \boxed{9} \boxed{3}$

$x =$ Check: _____

7. $\triangle \boxed{10} \perp \boxed{9} \boxed{5}$

$x =$ Check: _____

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

$x =$ Check: _____

9. $\triangle \triangle \boxed{3} \perp \triangle \boxed{10} \boxed{2}$

$x =$ Check: _____

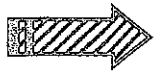
10. $\triangle \triangle \boxed{4} \perp \boxed{9} \boxed{7} \boxed{2}$

$x =$ Check: _____

HANDS-ON EQUATIONS®

Lesson #3
Classwork Sheet

Name: _____
Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

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

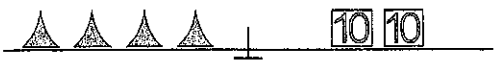
2. $x + 2 + 2x = x + 10$ $x =$ Check: _____

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

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

Previous Work

5.  $x =$ Check: _____

6.  $x =$ Check: _____

7.  $x =$ Check: _____

8. $2x + 2 = x + 5$ $x =$ Check: _____

9. $3x + 1 = x + 13$ $x =$ Check: _____

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

HANDS-ON EQUATIONS[®]

Lesson #3

Name: _____

Extra Practice

Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1. $3x + 8 = 5x$

$x =$ Check: _____

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

$x =$ Check: _____

3. $x + 3x = x + x + 12$

$x =$ Check: _____

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

$x =$ Check: _____

Previous Work

5. 

$x =$ Check: _____

6. 

$x =$ Check: _____

7. 

$x =$ Check: _____

8. $x + 11 = 3x + 3$

$x =$ Check: _____

9. $3x + 4 = x + 10$

$x =$ Check: _____

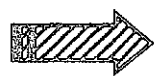
10. $x + 3 + 3x = x + 15$

$x =$ Check: _____

HANDS-ON EQUATIONS[®]

Lesson #4
Classwork Sheet

Name: _____
Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

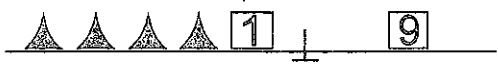
1. $x + 2x + 5 = x + 19$ $x =$ Check: _____

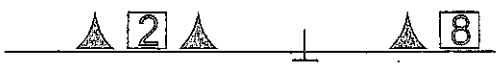
2. $x + 2x + 14 = 5x + 2$ $x =$ Check: _____

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

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

Previous Work

5.  $x =$ Check: _____

6.  $x =$ Check: _____

7. $5x = 3x + 10$ $x =$ Check: _____

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

9. $2x + 4 + 2x = x + 10$ $x =$ Check: _____

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

HANDS-ON EQUATIONS[®]

Lesson #4

Name: _____

Extra Practice

Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

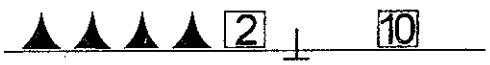
1. $x + 3x + 8 = x + 14$ $x =$ Check: _____

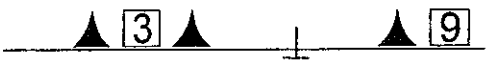
2. $x + 2x + 10 = 4x + 9$ $x =$ Check: _____

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

4. $x + 5 + 2x = x + 15$ $x =$ Check: _____

Previous Work

5.  $x =$ Check: _____

6.  $x =$ Check: _____

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

8. $4x + x = 2x + 9$ $x =$ Check: _____

9. $3x + 7 + 2x = x + 11$ $x =$ Check: _____

10. $x + 3 + 2x + 1 = 5x$ $x =$ Check: _____

HANDS-ON EQUATIONS®

Lesson #5
Classwork Sheet

Name: _____
Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

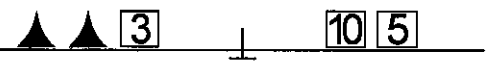
1. $4x - 2x + 4 = x + 10$ $x =$ Check: _____

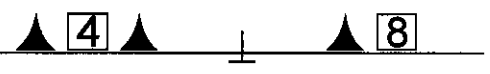
2. $x + 3x - x = 30$ $x =$ Check: _____

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

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

Previous Work

5.  $x =$ Check: _____

6.  $x =$ Check: _____

7. $4x = 2x + 4$ $x =$ Check: _____

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

9. $2x + x + 4 + 2x = x + 20$ $x =$ Check: _____

10. $2x + 8 + x = 2x + 15$ $x =$ Check: _____

HANDS-ON EQUATIONS®

Lesson #5

Name: _____

Extra Practice

Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

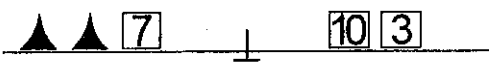
1. $4x - 3x + 4 = 2x + 2$ $x =$ Check: _____

2. $x + 2x - x = 26$ $x =$ Check: _____

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

4. $x + 3x - x + 8 = 5x - x + 4$ $x =$ Check: _____

Previous Work

5.  $x =$ Check: _____

6.  $x =$ Check: _____

7. $3x = x + 18$ $x =$ Check: _____

8. $x + 2 + 2x = x + 14$ $x =$ Check: _____

9. $2x + x + 5 + 2x = x + 17$ $x =$ Check: _____

10. $2x + 7 + x = 2x + 12$ $x =$ Check: _____

HANDS-ON EQUATIONS®

Lesson #6 Classwork Sheet

Name: _____
Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

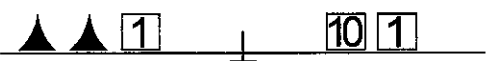
1. $2(x + 3) = 10$ $x =$ *Check:* _____

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

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

4. $2(2x + 3) = x + 9$ $x =$ *Check:* _____

Previous Work

5.  $x =$ *Check:* _____

6.  $x =$ *Check:* _____

7. $x + 4 = 2x + 3$ $x =$ *Check:* _____

8. $x + x + x + 2x + 1 = 11$ $x =$ *Check:* _____

9. $3x + 5 = x + 19$ $x =$ *Check:* _____

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

HANDS-ON EQUATIONS[®]

Lesson #6

Name: _____

Extra Practice

Grade: _____



Use your Hands-On Equations Kit to solve:

New Work

1. $2(x + 5) = 12$

$x =$

Check: _____

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

$x =$

Check: _____

3. $2(2x + 1) = 3x + 5$

$x =$

Check: _____

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

$x =$

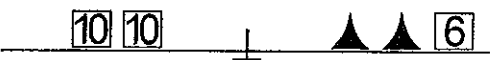
Check: _____

Previous Work

5. 

$x =$

Check: _____

6. 

$x =$

Check: _____

7. $x + 6 = 2x + 1$

$x =$

Check: _____

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

$x =$

Check: _____

9. $3x + 3 = x + 21$

$x =$

Check: _____

10. $4x - 2x + 1 = 2x + 2x - x$

$x =$

Check: _____

HANDS-ON EQUATIONS[®]

Lesson #7
Classwork Sheet

Name: _____
Grade: _____

New Work



Use the pictorial system to solve these problems:

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

2. $4x + 2x = x + x + 20$ $x =$ Check: _____

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

4. $2(3x + 1) = x + 22$ $x =$ Check: _____

Previous Work



Use your Hands-On Equations Kit to solve:

5. $\overbrace{10 \ 10 \ 4}^{\text{pennies}} \mid \overbrace{\blacktriangle \ \blacktriangle \ \blacktriangle \ \blacktriangle}^{\text{ones}}$ $x =$ Check: _____

6. $\overbrace{\blacktriangle \ \blacktriangle \ \blacktriangle}^{\text{ones}} \mid \overbrace{4}^{\text{pennies}} \mid \overbrace{\blacktriangle \ \blacktriangle}^{\text{ones}} \mid \overbrace{7}^{\text{pennies}}$ $x =$ Check: _____

7. $5x + 2 = 3x + 12$ $x =$ Check: _____

8. $2x + 1 + x + 4 = x + 16 + x$ $x =$ Check: _____

9. $5x - 3x + x + 8 = 2x + 1 + x + x$ $x =$ Check: _____

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

HANDS-ON EQUATIONS[®]

Lesson #7

Name: _____

Extra Practice

Grade: _____

New Work



Use the pictorial system to solve these problems:

1. $3x + x = 12$

$x =$ Check: _____

2. $4x + 2x = x + x + 16$

$x =$ Check: _____

3. $3x + 4 = x + 18$

$x =$ Check: _____

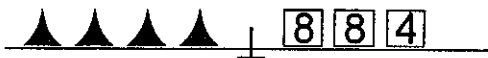
4. $2(3x + 1) = x + 27$

$x =$ Check: _____

Previous Work



Use your Hands-On Equations Kit to solve:

5. 

$x =$ Check: _____

6. 

$x =$ Check: _____

7. $4x + 2 = 3x + 8$

$x =$ Check: _____

8. $2x + 1 + x + 5 = x + 7 + x$

$x =$ Check: _____

9. $5x - 3x + x + 7 = 2x + 1 + x + x$

$x =$ Check: _____

10. $2(x + 3) = x + 14$

$x =$ Check: _____