Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

UNIT 7 LESSON 4

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| AIM: | SWBAT solve one-step multiplication and division equations |

**THINK ABOUT IT!**

Use a model to represent and solve the equation below. 3x = 36

Explain how you used the model to solve

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Key Point

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**Interaction with New Material**

Ex. 1)What is the solution of the equation below? 8 = y ÷ 4

Ex. 2)What value of p makes the equation below true? $\frac{20.8}{d}=4$

**PARTNER PRACTICE**

CFS for top quality work

* + Problem is annotated with margin notes to provide additional meaning
	+ Bar model is drawn accurately and labeled
	+ All calculations are shown, neatly organized, and labeled
	+ Answer statement is provided
	+ Check is completed

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| *Bachelor Level* |

**Directions:** Draw a model to solve each equation and check your answer using substitution.

1. 28 = 4c
2. $\frac{f}{3}=4$
3. 25.5 = k – 19

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| *Master Level* |

1. What value of g makes the equation below true?

$$\frac{17.5}{g}=5$$

 a) 87.5

 b) 22.5

 c) 12.5

 d) 3.5

**INDEPENDENT PRACTICE**

CFS for top quality work

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	+ All calculations are shown, neatly organized, and labeled
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| *Bachelor Level* |

**Directions:** Draw a model to solve each equation and check your answer using substitution.

1. 29 = 2a
2. $7=\frac{h}{3}$
3. 9¾ + m = 15

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| *Master Level* |

**Directions:** Draw a model to solve each equation and check your answer using substitution.

1. $\frac{1.05}{k}=3.5$
2. $15\frac{3}{4}=3.5n$
3. Which equation or equations have a solution of x = 3? Select all that apply.
	1. 6 ÷ x = 3
	2. x + 9.34 = 9.37
	3. $\frac{15}{x}=5$
	4. 19.5 = 6.5x
4. When solving algebraic equations, Meghan and Meredith each got a different solution. Who is correct? Why did the other person not get the correct answer?

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| **Meghan** | **Meredith** |
| $$\frac{y}{2}=4$$y = 8 4 x 2 = 8 | $$\frac{y}{2}=4$$y = 2 4 ÷ 2 = 2 |

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| *PhD Level* |

1. Nadia bought 5 tickets to attend a spaghetti supper fundraiser at her school. The total cost of the tickets was $32.50. Each individual ticket cost *d* dollars. Write and solve an algebraic equation to determine the cost of each individual ticket, *d*.

CFS for top quality work

* + Problem is annotated with margin notes to provide additional meaning
	+ Bar model is drawn accurately and labeled
	+ All calculations are shown, neatly organized, and labeled
	+ Answer statement is provided
	+ Check is completed

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**EXIT TICKET**

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| Self-assessment | I mastered the learning objective today. | I am almost there.  | Need more practice and feedback. |
| Teacher feedback | You mastered the learning objective today. | You are almost there.  | You need more practice and feedback. |

1. Find the value of r that makes the following equation true: $\frac{r}{10}=4$. Use a model to show your thinking.
2. Find the value of h that makes the following equation true: $\frac{10}{h}=2$.
3. Which value below represents the solution to 64 = 4u?

A) 256

B) 68

C) 60

D) 16