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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?

**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
3. 25.5 = k – 19

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| *Master Level* |

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

a) 87.5

b) 22.5

c) 12.5

d) 3.5

**INDEPENDENT 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. 29 = 2a
2. 9¾ + m = 15

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| *Master Level* |

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

1. 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. 19.5 = 6.5x
2. 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** |
| y = 8 4 x 2 = 8 | 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: . Use a model to show your thinking.
2. Find the value of h that makes the following equation true: .
3. Which value below represents the solution to 64 = 4u?

A) 256

B) 68

C) 60

D) 16