Standard 8.EE.7 **2.5 Literal Equations and Formulas** Unit 3 Day 7

**Warm-up:** Solve for ***c*** if *t* = 1.

Can you solve for **c** if **t** is not given? Yes / No

Sometimes equations contain more than one \_\_\_\_\_\_\_\_\_\_\_\_ and you need to \_\_\_\_\_\_\_\_\_\_ for one of the variables.

**Example 1: Solving for a variable (your answer will have a variable in it!)**

|  |  |
| --- | --- |
| 1. Solve for **c**.
 | 1. Solve 3x – 4y = 7 for **y**.
 |
| 1. Solve s =  for **b**.
 | 1. Solve E=mc2 for **m**.
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**Example 2: Using Formulas**

The formula C = 2πr represents the circumference of a circle where r is the radius.

1. Solve the formula for **r**.
2. If an airplane could fly around the earth at the equator without stopping, it would have traveled about 24,900 miles. Find the radius of the earth.

7 ft

18 ft

Find the area of the triangle below. A = ½ bh

1. Solve the formula for **h**.
2. What is the height of a triangle with an area of 28 square feet and a base of 8 feet?