



Name _____

Date _____

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Working Backward with Addition, Subtraction, Multiplication, and Division

Word Problems

(4.OA.3)

Directions: Solve the following using numbers, pictures, and words. 😊

1 **Z** is a number. When added to 12, the sum is then multiplied by 4, the product is 100. What is **z** ?

2 **Y** is a number. When subtracted from 23, then multiplied by 6, the product is 108. What is **y**?

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Key

1 $12 + z = ?$
 $? \times 4 = 100$

$$100 \div 4 = 25$$
$$25 - 12 = 13$$
$$z = 13$$

2 $23 - y = ?$
 $? \times 6 = 108$

$$108 \div 6 = 18$$
$$23 - 18 = 5$$
$$y = 5$$