

Math Practice Sheets

Working with Equations and Graphs

Student Name



Examples

Practice Questions

Extra Challenge Unit

**Unit
21.1****Solving Two-Step Equations****Example**

James borrowed \$125 from John. He returned \$45 immediately. How much money did he have to pay each week if he had to completely pay off the loan in 5 weeks?

Solution:

Let x be the total amount that James had to pay in one week.

Owed amount + returned amount = total loan amount

$$5x + 45 = 125$$

First step: undo
addition/subtraction

$$5x + 45 - 45 = 125 - 45$$

(Subtract 45 from both sides)

or, $5x = 80$

Second step: undo
multiplication/division

$$5x = 80$$

$$\frac{5x}{5} = \frac{80}{5}$$

(Divide by 5)

$$x = 16$$

James must pay \$16
each week.

Check

$$5x + 45 = 125$$

$$5 \times 16 + 45 = 125$$

$$80 + 45 = 125$$

$$125 = 125$$

Exercise

1. Identify and write which operation you would undo first, and then solve.

a) $2x + 4 = 16$

b) $3x - 4 = 50$

c) $\frac{k}{20} + 3 = 7$

d) $56 = 5a - 4$