

## LESSON

**3-3****Problem Solving****Solving One-Step Inequalities by Multiplying or Dividing**

Write and solve an inequality for each situation.

1. Karin has \$3 to spend in the arcade. The game she likes costs 50¢ per play. What are the possible numbers of times that she can play?

**Solution:**

Let  $g$  = the number of games

Games are 0.50 each and she has \$3.

$$0.50g \leq 3$$

$$g \leq 6$$

0, 1, 2, 3, 4, 5, 6

2. Tyrone has \$21 and wants to buy juice drinks for his soccer team. There are 15 players on his team. How much can each drink cost so that Tyrone can buy one drink for each person?

**Solution:**

Let \_\_\_\_\_ = cost of drink

$$15 \text{ _____} \leq \text{_____}$$

$$d \leq \text{_____}$$

The table below shows some items and their prices for sale at the movies. Use this information to answer questions 3–4.

3. Alyssa has \$7 and would like to buy fruit snacks for as many of her friends as possible. Which inequality below can be solved to find the number of fruit snacks  $f$  she can buy?

**A**  $2f \leq 7$

**B**  $2f < 7$

**C**  $7f \leq 2$

Item	Price (\$)
Popcorn	3.50
Drink	3.00
Hot Dog	2.50
Nachos	2.50
Fruit Snack	2.00

4. Reggie has \$13 and is going to buy popcorn for his friends. Which answer below shows the possible numbers of popcorns,  $p$ , Reggie can buy for his friends?

**F** 0, 1, or 2

**G** 0, 1, 2, or 3

**H** 0, 1, 2, 3, or 4

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$$15d \leq \$21$$

$$d \leq \$1.40$$

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