

**SET ONE**

**1. Study Jose's correct work.**

**2. Answer these questions.**



Name: Jose

*Solve. Write your answer in sentence form.*

A builder has a piece of rope that is  $\frac{1}{3}$  m long. She needs to cut it into 6 equal pieces. How long will each piece be?

$\frac{1}{3} \div 6$

1 third  $\div 6$

6 eighths  $\div 6$

1 eighteenth

Each piece of rope will be  $\frac{1}{18}$  m long.



- Look at the step marked with an arrow. Partition the model to prove that 1 third is equivalent to 6 eighths.



- Why does changing 1 third to 6 eighths make it easier to use mental math to solve the problem?

**3. Then complete this one.**

*Solve. Write your answer in sentence form.*

A bag of pebbles weighs  $\frac{1}{2}$  of a pound. A child is splitting this bag into 3 equal piles. How much will each pile weigh?

Multiplying and Dividing Fractions  
**Division Word Problems (Part 1), continued**

**SET TWO**

**1. Study Mariah's incorrect work.**



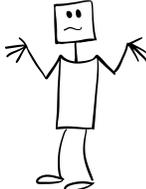
Name:     Mariah    

Solve. Write your answer in sentence form.

The cook used  $\frac{1}{4}$  of a cup of pepperoni to make 4 pizzas. She used the same amount of pepperoni on each pizza. How many cups of pepperoni did she use on each pizza?

$4 \div \frac{1}{4}$   
 $4 \times 4$   
16

She used 16 cups of pepperoni on each pizza.



**2. Answer these questions.**

- 1. Based on the word problem, is it reasonable that the cook used 16 cups of pepperoni on each pizza? Explain.
- 2. Mariah set up her expression incorrectly. Why doesn't it make sense to divide 4 by  $\frac{1}{4}$ ?

**3. Then complete this one.**

Solve. Write your answer in sentence form.

The baker used  $\frac{1}{3}$  of a gallon of milk to make 7 bowls of pudding. He used the same amount of milk in each bowl. How much milk did he use in each bowl of pudding?