



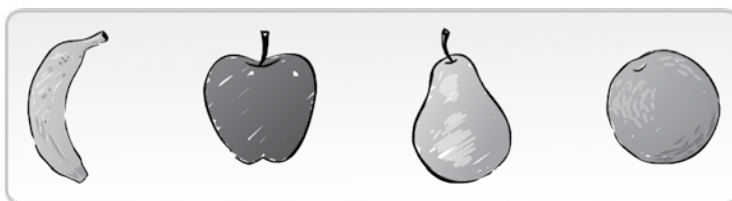
CCSS: 6.RP.A.1: Understand the concept of ratio and use ratio language to describe a relationship between two quantities. 6.RP.A.3: Use ratio and rate reasoning to solve real-world and mathematical problems ...

## Launch

© MP6, MP7

Due to high demand, a gift shop wants more fruit boxes with a 1 : 3 ratio of the number of apples to the total number of fruit.

Use letters to complete each plan. Write the fraction  $\frac{\text{number of apples}}{\text{total number of fruit}}$ . Cross out any plan that does not have the correct ratio.



b = banana

a = apple

p = pear

o = orange

Box Plan 1

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<input type="text"/>	apples
<input type="text"/>	fruit

Box Plan 2


<input type="text"/>	apples
<input type="text"/>	fruit

Box Plan 3


<input type="text"/>	apples
<input type="text"/>	fruit

**Reflect** How do the ratio and the fractions in the problem both describe the apples in the boxes?

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# Got It?

## PART 1 Got It (1 of 2)



A school baseball team has 5 pitchers, 2 catchers, and 12 other fielders. Write the ratio of the number of pitchers to the total number of players in three ways.

## PART 1 Got It (2 of 2)



Suppose you have a fruit box in which the ratio of the number of pears to the number of apples is  $\frac{2}{3}$ . Explain what this ratio tells you about the relationship between the types of fruit in the box.

# Got It?

## PART 2 Got It



Write two different ratios equivalent to  $\frac{6}{8}$ .

## PART 3 Got It (1 of 2)



Write the ratio 12 to 40 in simplest form.

## PART 3 Got It (2 of 2)



How can you determine whether a ratio is in simplest form?

# Close and Check



## Focus Question

© MP2, MP3

Why might you want to write a ratio as a fraction?

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## Do you know HOW?

1. You propose a new mix of fruit for a fruit box. Write the ratio of apples to fruit (apples, pears, oranges, and mangoes) in three ways.

p	o	p
a	o	m

<input type="text"/>	to	<input type="text"/>	<input type="text"/>
<input type="text"/>	:	<input type="text"/>	<input type="text"/>

2. The ratio of rock songs to all songs on a playlist is  $\frac{36}{60}$ . Write this ratio in simplest form.

<input type="text"/>
<input type="text"/>

3. Circle the ratios that are equivalent to  $\frac{36}{60}$ .

$\frac{6}{10}$	$\frac{9}{15}$	$\frac{15}{20}$
$\frac{24}{36}$	$\frac{48}{80}$	



## Do you UNDERSTAND?

4. **Writing** Your class visits the zoo. Your friend says that the ratio of elephants to giraffes is  $\frac{3}{8}$ . You describe the relationship of elephants to giraffes as  $\frac{9}{24}$ . Can both you and your friend be correct? Explain.

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5. **Compare and Contrast** How would the problem above have been the same or different if the ratios would have been written as 3 : 8 and 9 : 24? Explain.

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