Name		
Due Date_	hippori an	(40

Ratios Study Guide

: The Lakeland Middle School boys' golf team is made up of seventh and eighth graders. There are 12 seventh graders and 17 eighth graders on the team.
Part A
Write the ratio of seventh graders to eighth graders and the ratio of eighth graders to seventh graders on the team.
The ratio of seventh graders to eighth graders is
The ratio of eighth graders to seventh graders is
Part B
Are the ratios you wrote in part A part-to-part or part-to-whole ratios?
Part C
Write the ratio of seventh graders on the team to the total number of team members and the ratio of eighth graders on the team to the total number of team members.
The ratio of seventh graders on the team to the total number of team members is
The ratio of eighth graders on the team to the total number of team members is
Part D .
Are the ratios you wrote in part C part-to-part or part-to-whole ratios?
Part E
Which is greater: the ratio of seventh graders to the total number of team members, or the ratio of eighth graders to the total number of team members? Explain your reasoning.

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Part A						
Write the ratio of sha Ratio =	aded squares to	not shaded squ	ares as a ratio an	d a fraction.		
Fraction =	naves of risher					
Part B						
Write the number of	shaded squares	s as a percent.				
	%					
Is the persont of sau	ares shaded a p	art-to-part or pa	rt-to-whole ratio?	n est un restem li		
is the percent of squ						
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diffusion to solven a					icket 1. Which buck	et w
: Dayna has two equa		1 or Bucket 2? Ex	xplain your answe	er.		
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: Dayna has two equa have a lighter shade	e of red, Bucket	1 or Bucket 2? Ex	xplain your answe	er.		

Q2: The hundredths grid shown represents a whole.

Q4: Micah, Rose and Zoe all ran in a 5-mile race. Their running rates are shown in the table.

Runner	Rate
Micah	1 mile in 8 minutes
Rose	2.5 miles in 20 minutes
Zoe	4 miles in 32 minutes

Part A

Write each runner's rate as a fraction.

Runner	Rate
Micah	WY COMMON PRINTED AND ADVISOR OF THE PRINTED ADVISOR OF THE PRINTED AND ADVISOR OF THE PRINTED ADVISOR OF THE PRINTED AND ADVISOR OF THE PRINTED
Rose	
Zoe	

Part B

Which runner won the race?

Q5: Scale up or scale down each ratio to determine the unknown quantity. State whether you scaled up or scaled down the given ratio and explain how you determined each answer.

Part A

366 miles	_ ?	
6 hours	1 hour	

Part B

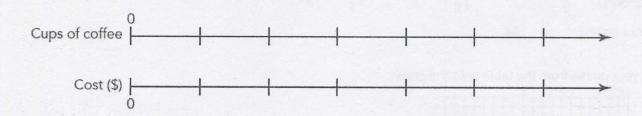
$$\frac{5 \text{ green balls}}{7 \text{ yellow balls}} = \frac{.?}{63 \text{ yellow balls}}$$

apples oranges pears		
Part A		
Describe what each small rectangle in the tape diagram represents.		
Part B		
What is the least total amount of fruit in a variety bag?		
One of the variety bags has a total of 40 pieces of fruit. Use the tape of type of fruit is in the bag.	diagram to determine hov	v many of eac
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One of the variety bags has a total of 40 pieces of fruit. Use the tape of type of fruit is in the bag. apples oranges oranges	diagram to determine hov	v many of each
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oranges pears Fruit Number of fruits Apples Oranges	diagram to determine hov	v many of each

Q7: Javaland sells a cup of coffee for \$2.50.

Part A

Complete the double number line.



Part B

How many cups of coffee can be purchased with \$10?

Part C

Ben wants to buy 7 cups of coffee for his office. He has \$18. Can he buy 7 cups of coffee? Explain your answer.

Part D

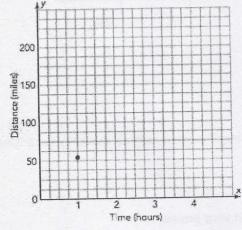
Can a person spend exactly \$12 on cups of coffee at Javaland? Explain your answer.

Q8: Ethan drove his car to his grandparents' house at a steady rate of 54 miles per hour.

a. The table shows the ratio time : distance. Complete the table.

Time (hours)	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	
Distance (miles)		54					

c. Plot your points from the table onto the graph.



d. If he continues driving at the same rate, how far will Ethan drive in 4 hours?

1			
1			

e. Driving at the same rate, how long will it take Ethan to drive 243 miles?

f. Draw a line through all the points you plotted on your graph. What do you notice?

g. Do all the points on the line you drew make sense in this problem situation	? Why or why not?