

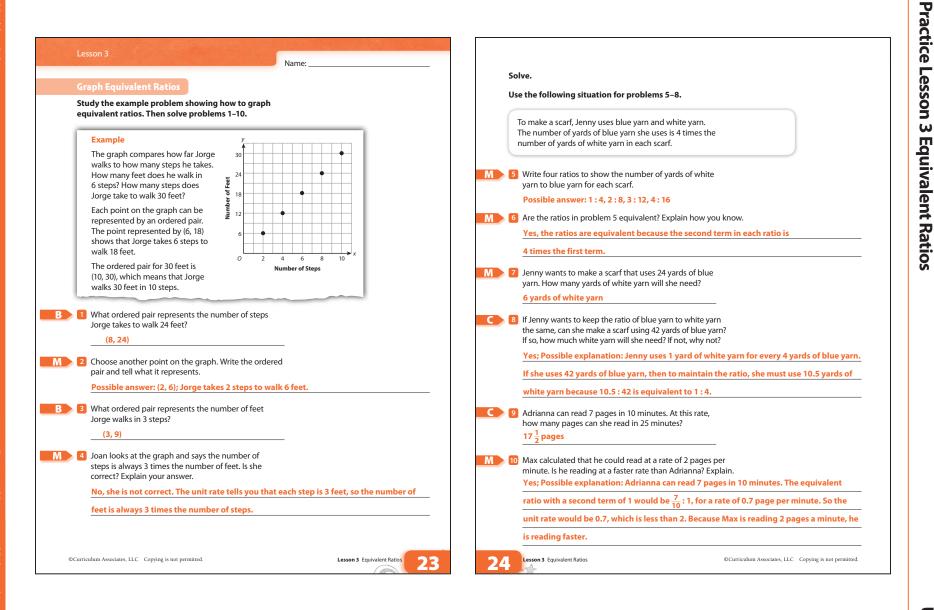
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Show Equivalent Ratios	Use the following information to solve problems 5–7.
Study the example problem showing how to find	ose the following information to some problems 5 //
equivalent ratios. Then solve problems 1–7.	The list below shows how many servings of different breakfast items that a restaurant expects to sell every 15 minutes:
Example Elena uses 12 red beads to make 4 bracelets. How many red beads will Elena need to make 12 bracelets? How many red beads will Elena need to make 20 bracelets?	Cups of coffee 25 Glasses of orange juice 10 Omelets 6
You can make a table showing the number of bracelets that can be made with different numbers of red beads. The pairs of numbers in each column show the ratio of red	M 5 How many glasses of orange juice does the restaurant expect to sell in 1 hour?
beads to bracelets. Notice the ratios are all equivalent.	Show your work.
Number of Red Beads 3 6 12 24 36 48 60 72 Number of Bracelets 1 2 4 8 12 16 20 24	Possible student work using a table: 1 hour is equivalent to 60 minutes.
The table shows Elena will need 36 red beads to make 12 bracelets. Elena will need 60 red beads to make	Number of Minutes15304560Number of Glasses of Orange Juice10203040
20 bracelets.	Solution: The restaurant expects to sell 40 glasses of orange juice in 1 hour.
1 How many red beads will Elena need to make	M 6 At this rate, how long will it take to sell 200 cups of coffee?
16 bracelets?	Show your work.
48 red beads	Number of Minutes 15 30 45 60 75 90 105 120
2 How many bracelets can Elena make with 24 red beads?	Number of Minutes 15 30 45 60 75 90 105 120 Number of Cups of Coffee 25 50 75 100 125 155 200
8 bracelets	Solution:It will take 2 hours, or 120 minutes, to sell 200 cups of coffee.
Find the rate of red beads per bracelet. Explain how you found your answer.	7 The restaurant serves breakfast from 6:00 AM until 10:30 AM. They sell 6 omelets every 15 minutes. Should
3 red beads per bracelet; I looked at the table and saw that there were 3 red beads for	the restaurant expect to sell more than or fewer than
1 bracelet, which gave me the rate.	100 omelets? Explain your answer. More; Possible explanation: There are 270 minutes from 6:00 until 10:30 and th
4 James said that he would need 25 red beads to make	restaurant sells 6 omelets every 15 minutes. The ratio $\frac{6}{15}$ is equivalent to the ra
75 bracelets. Is he correct? How did he get that answer?	which means the restaurant expects to sell 108 omelets from 6:00 to 10:30.
No, James is not correct. He used the wrong ratio. He used a ratio of 1 red bead to	So, they expect to sell more than 100 omelets.
3 bracelets, but the ratio is 3 red beads to 1 bracelet, so he would need 75 red beads to	
make 25 bracelets.	

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Unit 1



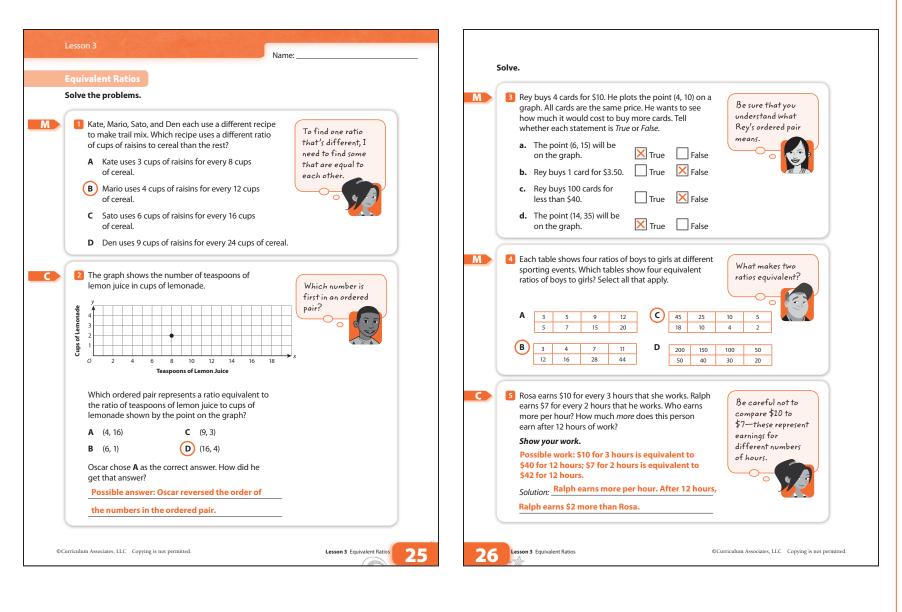
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Equivalent Ratios

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Unit 1

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