Test Corrections are due now.

Work on pages 167-168 as Bellwork

Staple the corrections to the front of your test and place in the appropriate "bin." Start correcting last night's hw.

	Number of Lawns Mowed	Time Spent Mowing Lawns (in hours)	Money Earned
Taryn	9	7.5	$112.50
Alastair	7	5	$122.50

$ / mow

9. How much does Taryn charge to mow a lawn? $12.50 per lawn

10. How much does Alastair charge to mow a lawn? $17.50 per lawn

11. Who earns more per hour, Taryn or Alastair? Alastair

12. **What If?** If Taryn and Alastair want to earn an additional $735 each, how many additional hours will each spend mowing lawns? Explain.

Taryn will spend 49 hours, Alastair will spend 30 hours; Taryn earns $112.50 ÷ 7.5 hours = $15 per hour, and 735 ÷ 15 = 49. Alastair earns $122.50 ÷ 5 hours = $24.50 per hour, and 735 ÷ 24.50 = 30.

12.50
9 | 112.50

17.50
7 | 122.50

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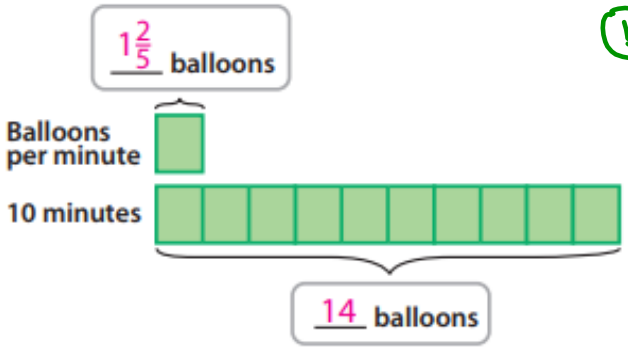
13. **Multistep** Tomas makes balloon sculptures at a circus. In 180 minutes, he uses 252 balloons to make 36 identical balloon sculptures.

a. How many minutes does it take to make one balloon sculpture? How many balloons are used in one sculpture? 5 minutes; 7 balloons

b. What is Tomas's unit rate for balloons used per minute? $1\frac{2}{5}$ balloons per minute

1.4

c. Complete the diagram to find out how many balloons he will use in 10 minutes. 14 balloons



(b) Balloons / min 252 / 180

1.4
180 | 252.0
−180
720
−720
0

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14. Abby can buy an 8-pound bag of dog food for $7.40 or a 4-pound bag of the same dog food for $5.38. Which is the better buy?

8-pound bag

Price / Unit

$\frac{7.40}{8}$ $8\overline{)7.400}$ $0.925 \rightarrow \$0.93$ $\frac{5.38}{4}$ $4\overline{)5.38}$

15. A bakery offers a sale price of $3.50 for 4 muffins. What is the price per dozen?

$10.50

$\frac{\$3.50}{4}$ ×3 $\frac{\$10.50}{12}$ ×3

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LESSON 6.3

Using Ratios and Rates to Solve Problems

Use Ratios to solve real-world problems

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pg. 161

Anna's recipe for lemonade calls for 2 cups of lemonade concentrate and 3 cups of water. Bailey's recipe calls for 3 cups of lemonade concentrate and 5 cups of water.

A In Anna's recipe, the ratio of concentrate to water is $\frac{2}{3}$ 2:3 2 to 3.
Use equivalent ratios to complete the table.

		2 × 2	2 × 3	2 × 5
Concentrate (c)	2	4	6	10
Water (c)	3	6	9	15
		3 × 2	3 × 3	3 × 5

B In Bailey's recipe, the ratio of concentrate to water is $\frac{3}{5}$ 3:5 3 to 5.
Use equivalent ratios to complete the table.

		3 × 3	3 × 4	3 × 5
Concentrate (c)	3	9	12	15
Water (c)	5	15	20	25
		5 × 3	5 × 4	5 × 5

C Find two columns, one in each table, in which the amount of water is the same. Circle these two columns.

D Whose recipe makes stronger lemonade? How do you know?
Anna 10/15 Bailey's 9/15 Anna has more concentrate

E Compare the ratios: $\frac{10}{15} > \frac{9}{15}$ $\frac{2}{3} > \frac{3}{5}$ $\frac{10}{15}$ $\frac{9}{15}$

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YOUR TURN pg.162

2. In the science club, there are 2 sixth-graders for every 3 seventh-graders. At this year's science fair, there were 7 projects by sixth-graders for every 12 projects by seventh-graders. Is the ratio of sixth-graders to seventh-graders in the science club equivalent to the ratio of science fair projects by sixth-graders to projects by seventh-graders? Explain.

Sc. Club: $\frac{6^{th}}{7^{th}}$ $\frac{2}{3}$ Sc. Fair Projects: $\frac{6^{th}}{7^{th}}$ $\frac{7}{12}$

$\frac{24}{34} \stackrel{?}{=} \frac{7}{12}$ LCM 12

$\frac{8}{12} \neq \frac{7}{12}$

Oct 23-3:48 PM

pg.164

1. Celeste is making fruit baskets for her service club to take to a local hospital. The directions say to fill the boxes using 5 apples for every 6 oranges. Celeste is filling her baskets with 2 apples for every 3 oranges. (Explore Activity 1)

a. Complete the tables to find equivalent ratios.

Apples	5	10	15	20
Oranges	6	12	18	24

Apples	2	4	6	8
Oranges	3	6	9	12

b. Compare the ratios. Is Celeste using the correct ratio of apples to oranges?

NO - $\frac{5}{6} \neq \frac{7}{6}$; $\frac{10}{12} \neq \frac{8}{12}$

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2. Neha used 4 bananas and 5 oranges in her fruit salad. Daniel used 7 bananas and 9 oranges. Did Neha and Daniel use the same ratio of bananas to oranges? If not, who used the greater ratio of bananas to oranges? (Example 1)

Neha $\frac{4}{5}$ Daniel $\frac{7}{9}$

$\frac{4 \cdot 9}{5 \cdot 9} \stackrel{?}{=} \frac{7 \cdot 5}{9 \cdot 5}$ LCM 45

$\frac{36}{45} \neq \frac{35}{45}$

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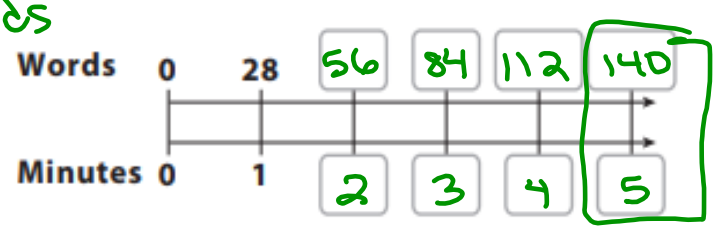
3. Tim is a first grader and reads 28 words per minute. Assuming he maintains the same rate, use the double number line to find how many words he can read in 5 minutes. (Explore Activity 2)

140 words



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4. A cafeteria sells 30 drinks every 15 minutes. Predict how many drinks the cafeteria sells every hour. (Explore Activity 2)

$\frac{30 \text{ drinks}}{15 \text{ min}} \times 4$ $\quad$ $\frac{120 \text{ drinks}}{60 \text{ min}}$

ESSENTIAL QUESTION CHECK-IN

5. Explain how to compare two ratios.

$\frac{2}{5} \stackrel{?}{=} \frac{3}{15}$

Find a common denominator compare the numerators

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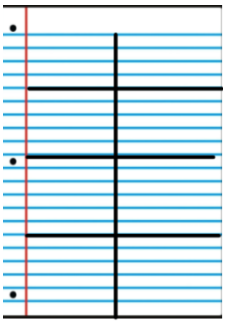
HW -

Textbook pages 165 - 166 (6-14)

9 Problems

Work must be shown on a separate sheet of paper with boxes.



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