Take out your hw PAPER (spiral/comp/loose leaf). Write the number of problems you completed at the top (9). Pink slip if you do not have or more than 1/2 in complete. Continue to work on pages 167-168 as bellwork.

6. Gina's art teacher mixes 9 pints of yellow paint with 6 pints of blue paint to create green paint. Gina mixes 4 pints of yellow paint with 3 pints of blue paint. Did Gina use the same ratio of yellow paint to blue paint instructed by her teacher? Explain.

No, Gina did not use the same ratio as her teacher. 9 to 6 is not equivalent to 4 to 3.

7. The Suarez family paid $15.75 for 3 movie tickets. How much would they have paid for 12 tickets? $63

8. A grocery store sells snacks by weight. A six-ounce bag of mixed nuts costs $3.60. Predict the cost of a two-ounce bag. $1.20

9. The Martin family's truck gets an average of 25 miles per gallon. Predict how many miles they can drive using 7 gallons of gas. 175 miles

⑦ $\frac{15.75}{3} \times 4$ $\frac{\$63}{12}$

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10. **Multistep** The table shows two cell phone plans that offer free minutes for each given number of paid minutes used. Pablo has Plan A and Sam has Plan B.

a. What is Pablo's ratio of free to paid minutes?
$\frac{2}{10} = \frac{1}{5}$

b. What is Sam's ratio of free to paid minutes?
$\frac{8}{25}$

	Cell Phone Plans	
	Plan A	**Plan B**
Free minutes	2	8
Paid minutes	10	25

c. Does Pablo's cell phone plan offer the same ratio of free to paid minutes as Sam's? Explain.

No. $\frac{1}{5} = \frac{5}{25}$. Since $\frac{8}{25} > \frac{5}{25}$, Sam's ratio is greater than Pablo's.

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Price / Unit 9/5

11. Consumer Math A store has apples on sale for \$3.00 for 2 pounds. How many pounds of apples can you buy for \$9? If an apple is approximately 5 ounces, how many apples can you buy for \$9? Explain your reasoning.

6 pounds; 19 apples; $\frac{\$3.00}{2\text{ pounds}} = \frac{\$1.50}{1\text{ pound}}$; $\frac{\$1.50 \times 6}{1\text{ pound} \times 6} = \frac{\$9.00}{6\text{ pounds}}$;

1 pound = 16 ounces, so 6 pounds $\times \frac{16\text{ ounces}}{1\text{ pound}}$ = 96 ounces;

96 ounces $\div \frac{5\text{ ounces}}{1\text{ apple}}$ = 19.2 apples.

12. Science Grass can grow up to six inches in a week depending on temperature, humidity, and time of year. At this rate, how tall will grass grow in 24 days?

approximately 20.6 inches

(12) 6 in / 7 days; 0.857 in × 24 / 1 day × 24

7) 6.000 = 0.857; −56, 40, −35, 50, −49, 1

0.857 × 24 = 3428 + 17140 = 20.568

13. A town in east Texas received 10 inches of rain in two weeks (14 d). If it kept raining at this rate for a 31-day month, how much rain did the town receive?

approximately 22 inches

14. One patterned blue fabric sells for \$15.00 every two yards, and another sells for \$37.50 every 5 yards. Do these fabrics have the same unit cost? Explain.

Yes, they both cost \$7.50 a yard.

(13) 10 in / 14 day

14) 10.000 = 0.714 in per day; −98, 20, −14, 60, −56, 4

0.714 × 31 = 714 + 21420 = 22.134

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pg. 167

6.1 Ratios ★

Use the table to find each ratio.

8/5 8:5 8 to 5

Online As... and Inte... my.h...

1. white socks to brown socks 5

2. blue socks to nonblue socks 4/19

3. black socks to all of the socks 6/23

Color of socks	white	black	blue	brown
Number of socks	8	6	4	5

4. Find two ratios equivalent to the ratio in Exercise 1.

8/5

Sample answer: $\frac{16}{10}$, $\frac{24}{15}$

6.2 Rates ★

Find each rate.

75 m / 30 sec

30) 75.0 = 2.5; −60, 150, −150, 0

5. Earl runs 75 meters in 30 seconds. How many meters does Earl run per second?

2 1/2 or 2.5

6. The cost of 3 scarves is \$26.25. What is the unit price?

Price / Unit 26.25 / 3

3) 26.25 = 8.75; −24, 22, −21, 15

\$8.75

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6.3 Using Ratios and Rates to Solve Problems ★

7. Danny charges $35 for 3 hours of swimming lessons. Martin charges $24 for 2 hours of swimming lessons. Who offers a better deal?

$\frac{24}{2} = \$12$ $3\overline{)35}$ 11.67

Danny

8. There are 32 female performers in a dance recital. The ratio of men to women is 3:8. How many men are in the dance recital?

$\frac{M}{W}$ $\frac{3\times4}{8\times4}$ $\frac{12}{32}$

12

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1. Which ratio is **not** equivalent to the other three?

Ⓐ $\frac{2}{3}$ Ⓒ $\frac{12}{15} \div \frac{3}{3} = \frac{4}{5}$

Ⓑ $\frac{6}{9} \div \frac{3}{3} = \frac{2}{3}$ Ⓓ $\frac{18}{27} \div \frac{9}{9} = \frac{2}{3}$

2. A lifeguard received 15 hours of first aid training and 10 hours of cardiopulmonary resuscitation (CPR) training. What is the ratio of hours of CPR training to hours of first aid training?

Ⓐ 15:10 Ⓒ 10:15

Ⓑ 15:25 Ⓓ 25:15

CPR / F.A. $\frac{10}{15}$

3. Jerry bought 4 DVDs for $25.20. What was the unit rate? ★

Price / unit

Ⓐ $3.15 Ⓒ $6.30

Ⓑ $4.20 Ⓓ $8.40

$4\overline{)25.20}$ 6.30 -24 12 -12 00 0

4. There are 1,920 fence posts used in a 12-kilometer stretch of fence. How many fence posts are used in 1 kilometer of fence?

Ⓐ 150 Ⓒ 155

Ⓑ 160 Ⓓ 180

$\frac{1920}{12\text{ km}}$ $12\overline{)1920}$ 160 -12 72 72 00 0

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5. Sheila can ride her bicycle 6,000 meters in 15 minutes. How far can she ride her bicycle in 2 minutes?

Ⓐ 400 meters Ⓒ 800 meters

Ⓑ 600 meters Ⓓ 1,000 meters

$\frac{6000\text{ m}}{15\text{ min}}$ $\frac{400\text{ m}}{1\text{ min}}$ $15\overline{)6000}$ $\frac{800\text{ m}}{2\text{ min}}$

6. Lennon has a checking account. He withdrew $130 from an ATM Tuesday. Wednesday he deposited $240. Friday he wrote a check for $56. What was the total change in Lennon's account?

Ⓐ −$74 Ⓒ $184

Ⓑ $54 Ⓓ $226

7. Cheyenne is making a recipe that uses 5 cups of beans and 2 cups of carrots. Which combination below uses the same ratio of beans to carrots?

Ⓐ 10 cups of beans and 3 cups of carrots

Ⓑ 10 cups of beans and 4 cups of carrots

Ⓒ 12 cups of beans and 4 cups of carrots

Ⓓ 12 cups of beans and 5 cups of carrots

B	5	10
C	2	4

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8. $\frac{5}{8}$ of the 64 musicians in a music contest are guitarists. Some of the guitarists play jazz solos, and the rest play classical solos. The ratio of the number of guitarists playing jazz solos to the total number of guitarists in the contest is 1:4. How many guitarists play classical solos in the contest?

Ⓐ 10 Ⓒ 16

Ⓑ 30 Ⓓ 48

$\frac{5}{8} \times \frac{8}{1} = 40$ guitarists

jazz (10) class. (30)

Total $\frac{1 \cdot 10}{4 \cdot 10} \frac{10}{40}$

9. Mikaela is competing in a race in which she both runs and rides a bicycle. She runs 5 kilometers in 0.5 hour and rides her bicycle 20 kilometers in 0.8 hour.

a. At the rate given, how many kilometers can Mikaela run in 1 hour?

$\frac{5\text{ km}}{0.5\text{ h}}$ 10 km

b. At the rate given, how many kilometers can Mikaela bike in 1 hour?

$\frac{20\text{ km}}{0.8\text{ h}}$ $0.8\overline{)20.0}$ 25 km

c. If Mikaela runs for 1 hour and bikes for 1 hour at the rates given, how far will she travel?

10 km + 25 km = 35 km

Quiz Tomorrow

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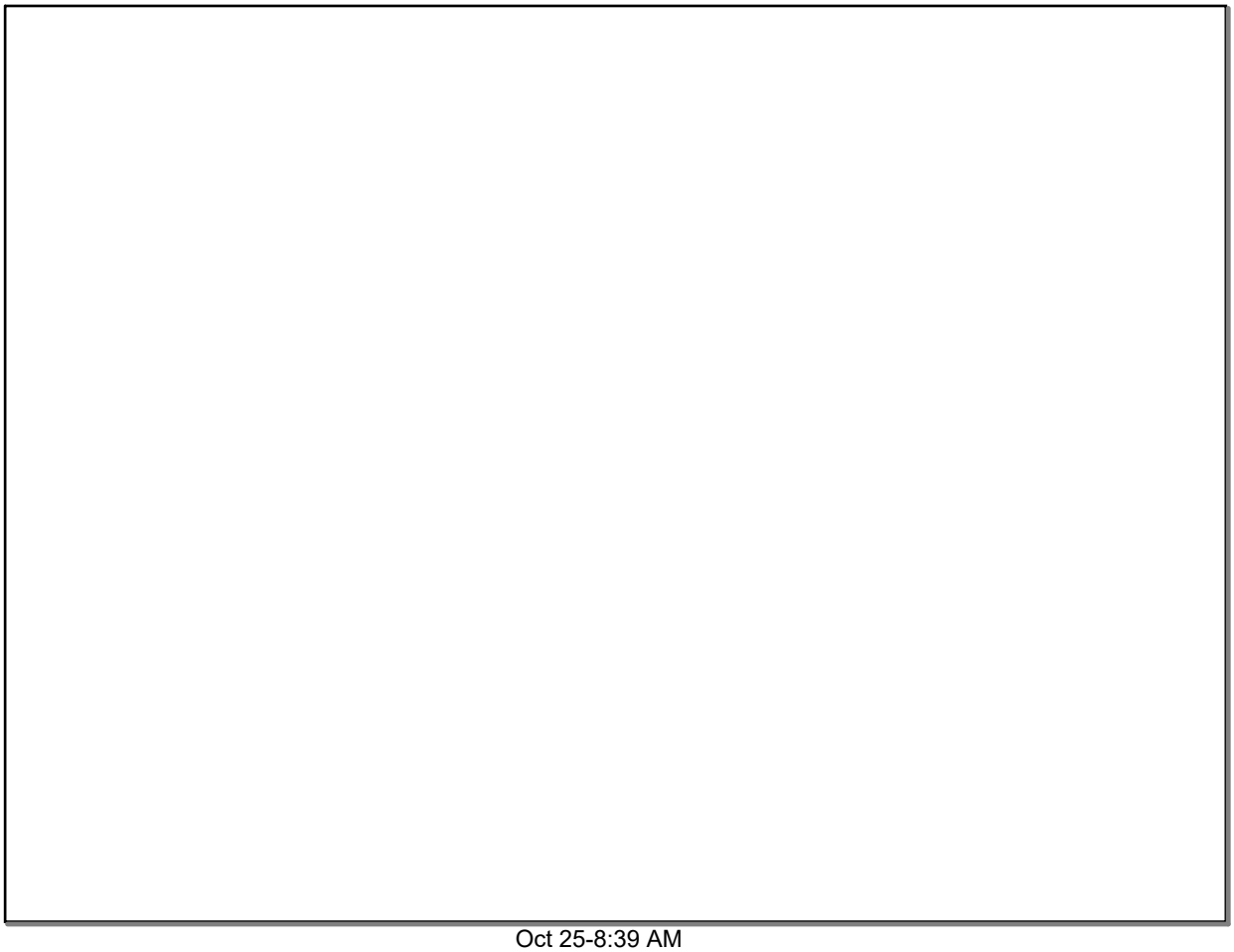

Oct 25-8:39 AM