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RATIOS AN PRE-ALGE	ID PROPORTIONS BRA	NAME: _ PERIOD:		
<ol> <li>Suppose a.</li> </ol>	e a class has 14 redheads, 8 brunettes, What is the ratio of redheads to brunet		ides.	ANSWERS
b.	What is the ratio of redheads to blonde	s?		1b 1c
C.	What is the ratio of blondes to brunette	s?		1d 2a
d. www. <b>TUTOR</b>	What is ratio of blondes to total students	s?		2b 2c
<ol> <li>Express</li> <li>a.</li> </ol>	the following as ratios in fraction form 3 to 12	and <u>reduc</u> b.	: <u>e</u> (simplify). 25 to 5	2d 3a 3b

c. 6 to 30 d. 100 to 10

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## 3. Write the <u>unit rate</u> for each situation.

(HINT: With unit rates and unit prices, the denominator in the ratio must be 1).

a. earn \$92 in 8 hours.

b. \$100 for 5 books

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# 4. Find each <u>unit price</u>. Then determine which is the better buy. Show work.

a. Which is the better buy	_			ANSWERS
10 pencils for \$1.10	or	30 pencils for	\$3.15?	4a
	4b			
				5a
				5b
b. Which is the better buy	5c			
\$50 for 10 comic books	or	\$202.50 for 45 comic books?	omic books?	6а
				6b

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## 5. Solve each proportion.

a.  $\frac{3}{x} = \frac{2}{8}$  b  $\frac{2}{5} = \frac{x}{45}$  c.  $\frac{3}{4} = \frac{21}{b}$ 

## 6. <u>Use a proportion</u> to find each missing number.

a. 175 days = \_\_\_\_\_ weeks b. 1440 minutes = \_\_\_\_\_ hours

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## 7. For the following problems, <u>set up a proportion</u> and solve.

a. At the Copy Shoppe, 18 copies cost \$1.08. At this rate, how much will 40 copies cost?

b. Three posters cost \$9.60. At this rate, how many posters could you buy for \$48?

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c. A microchip inspector found three defective chips in a batch containing 750 chips. At that rate, how many defective chips would there be in 10,000 chips.

d. You can do 12 math problems in 45 minutes. At this rate, how long will it take you to do 20 math problems.

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ANSWERS

7a. \_\_\_\_

7b. \_\_\_\_

7c.

7d.

7e.

e. A baseball team scores 4 runs in the first three innings of a 9-inning baseball game. If it continues at that rate, how many runs will it score in the game.?