## Unit 5 Review

Name: $\qquad$

1. Paul sells 20 adult tickets and 30 student tickets for the school play. Write the simplified ratio of student tickets to adult tickets in three ways. Also EXPLAIN what the ratio represents.

| Words | Colon | Fraction |
| :--- | :--- | :--- |
|  |  |  |

"For every... $\qquad$
$\qquad$
3. Grace \& Jim each bought notebooks for school. Grace got 6 notebooks for $\$ 4.80$. Jim got 5 notebooks for \$3.90. Jim says he got a better deal. Explain whether or not he is correct and how you know.
5. *This table contains equivalent ratios between $x$ and $y$. Find the missing value

$=-\quad$| $\boldsymbol{x}$ | $\boldsymbol{y}$ |
| :---: | :---: |
| 3 | 2 |
| 6 | 4 |
|  | 12 |
| 27 | 18 |

4. Determine what pairs of ratios CANNOT form a proportion.

$$
\begin{array}{ll}
\frac{3}{6}, \frac{2}{4} & \frac{4}{6}, \frac{14}{21} \\
\frac{10}{70}, \frac{2}{7} & \frac{2}{7}, \frac{6}{21}
\end{array}
$$

6.     * Frankie bakes 45 cookies in 3 hours. At this rate, how many cookies will Frankie bake in 6 hours?
A. Brianna \& Caleb make cakes at the same rate.
B. Caleb makes cakes faster than Alex because 28 is more than 18
C. Brianna makes cakes faster than Alexander because 21 is more than 18
D. Alexander makes cakes faster than Caleb \& Brianna.

## Select ALL true statements.


(hint: find Unit Rates for each person)
8. The fuel for a chain saw is a mix of oil and gasoline. The label says to mix 6 ounces of oil with 20 gallons of gasoline. How much oil would you use if you had 60 gallons of gasoline?
E. Brianna makes cakes at a slower rate than Alex.
F. Caleb makes cakes slower than Alexander because his rate per hour is less than Alexander's rate per hour
9. Find the value $(x)$ that completes the proportion.

$$
\frac{8}{9}=\frac{x}{25}
$$



