$\qquad$

1. Find the Prime Factorization of the number below. Write your answer on the line provided using exponents if needed. Do not use a calculator. Show your work.
2. Simplify the following problem. Do not use a calculator. Show your work.

$$
3(15-4)+5(7)-\left(20-18 \div 3^{2}\right)
$$

$$
64=
$$

$\qquad$

Use the Distributive property and write as a product using the GCF.
3. $55+35=$ $\qquad$
4. $18+12=$ $\qquad$
It takes 5 months to build 2 playgrounds. Find the unit rates for each and fill in the blanks. You may use a calculator.
5. For each month you can make $\qquad$ playground.
6. For each playground it takes $\qquad$ months.

Fill in the missing values in the ratio tables below. You may use a calculator
7.

| 35 | 7 |
| :--- | :--- |
| 45 |  |

8. 

|  | 27 |
| :--- | :--- |
| 126 | 18 |

9. 

| 21 | 25 |
| :---: | :---: |
|  | 225 |

10. 

| 78 |  |
| :--- | :--- |
| 26 | 19 |

11. Change the following improper fractions to mixed numbers:
$73 / 7=$
$48 / 9=$
12. 7 bags for $\$ 97.16$

Find the price per bag.
You may use a calc. Show your thinking.
13. Circle the ratios that are equivalent to $3: 8$
$\underline{25}$
33
$\underline{27}$
$\underline{21}$
32
80
72
56
$\qquad$
You may use a calculator on problems 14-17. Show your thinking!
14. $4 / 5$ of the pets had their shots. If there were 6205 pets in the county, how many had their shots?
15. 984 people arrived early for the game. This is $3 / 4$ of the total. What was the total?

16. Solve this problem using the rate table to the right. Shannon earned $\$ 132.50$ for working 5 hours.
a. How much did Shannon earn per hour?
b. At this rate, how many hours will she have to work to earn $\$ 980.50$ ?
c. How much will he earn if she works for 39.5 hours?

|  |  |
| :--- | :--- |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

17. For every 4 small popcorns sold at the theater there were 3 large sold. Complete the table below and answer the questions.

| Small popcorns |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Large popcorns |  |  |  |  |  |

a. For every small popcorn that was sold $\qquad$ large popcorn(s) were sold.
b. For each large popcorn that was sold $\qquad$ small popcorn(s) were sold.
c. If 68 small popcorns were sold, how many large popcorns were sold? $\qquad$
d. If 84 large popcorns were sold, how many small popcorns were sold? $\qquad$

