T-MF Math Fundamentals Week 21 2/13
Fraction $=\frac{\text { part }}{\text { whole }} \quad$ Ratio port: part
ice cream: 哂1 "proportimality"
pizza: 1111
Fraction: $\frac{\text { ice cream }}{\text { total } \# \text { of }}=\frac{6}{10}=\frac{3}{5}$ people
Ratio icecream: pizza

$$
\frac{6}{2}: \frac{4}{2}=3: 2
$$

Ratios $\rightarrow$ Rates unit/time $\$ / \mathrm{h} \quad \mathrm{mi} / \mathrm{w}$
Nate ate 192 donuts in 8 hours

$$
\text { donut/w } 192 / 8 \quad 24 \text { donors/ } / \mathrm{w}
$$

Nate committed 36 felonies over a 9 day period.
Rate: felonies/day $\frac{3 \text { felonies }}{9 \text { days }}=\frac{4 \text { felonies }}{\text { day }}$
Proportions
Donuts
Hours


Best Sundae


Rests's
cops $72 * 4$,

$$
72 * 4=288
$$



## Solve each problem.

1) The ratio of white chocolate to dark chocolate sold at a candy shop was $5: 4$. If there were 35 bars of white chocolate sold, how many bars of dark chocolate were sold?



2) A produce store sold 45 red apples. If the ratio of red apples to green apples sold was $5: 2$, what is the combined amount of red and green apples sol yank 9
3) A fast food restaurant sells two sizes of fries, small and large. On Friday they sold 81 fries total. If 9 of the fries sold were small, what is the ratio of large fries sold to small fries sold?
small
lave
$81-9=72$
small: large
small: large $\frac{9}{9}: \frac{72}{9} \quad 1: 8$
(4) At a pet store the ratio of cats to dogs sold was $2: 1$. If there were 16 cats that were sold, how many dogs were sold?

4) During a class election the ratio of students where for candidate A compared to candidate $B$ was $7: 4$. If candidate $A$ received 21 votes, what is the combined amount of votes candidate $A$ and candidate $B$ received?
5) A video game had 35 levels in it. If you beat 5 of the levels, what is the ratio of levels left to the levels that have been beaten?
6) Dave was playing checkers with a friend. The ratio of games Dave won was $7: 2$. If Dave won 35 games, how many games did his friend win?
7) A chess player won 72 of the games he played. If his ratio of wins to loses was $9: 4$, how many games did he play total?
8) A small school has 55 students. If 10 of the students are boys, what is the ratio of girls to boys?
9) A buffet offers ranch or caesar dressing. The ratio of ranch dressing used to caesar dressing used is $7: 1$. If the buffet uses 28 cases of ranch dressing, how many cases of caesar do they use?
3. 


4.

5.

6. $\qquad$
7. $\qquad$
8. $\qquad$
9. $\qquad$
10. $\qquad$


## Reduce each ratio to its lowest form.


3) $10: 30$ $\qquad$ 4) $63: 90$ $\qquad$
6) $72: 9$ $\qquad$
7) $20: 45$ $\qquad$
9) $28: 49$ $\qquad$ 10) $10: 20$ $\qquad$
12) $10: 50$ $\qquad$
15) $14: 21$ $\qquad$
18) $50: 40$ $\underline{ }$
50.40
$\qquad$
19) $63: 45$
$\qquad$
13) $36: 4$ $\qquad$
16) $6: 15$ $\qquad$
17) $20: 15$ $\qquad$ 14. $\qquad$
15. $\qquad$
16. $\qquad$
20) $30: 54$ $\qquad$

Answers

Ex. $\qquad$ $9: 7$

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
7. $\qquad$
8. $\qquad$
9. $\qquad$
10. $\qquad$
11. $\qquad$
12. $\qquad$
13. $\qquad$
14. 

$\qquad$
18. $\qquad$
19. $\qquad$
20. $\qquad$

