## WELCOME TO $7^{\text {TH }}$ GRADE <br> WE LOVE MATH AT YC!!

Summer 2023
Dear $7^{\text {th }}$ grade math student:

Along with practicing your basic facts (times tables) over the summer, please work on the enclosed packet. It contains a number of math computation and skills review problems. They are concepts with which you should be familiar. In $7^{\text {th }}$ grade you will build upon the knowledge you already have in these particular areas. Even though this packet will not be collected for a grade, it is extremely helpful for your success in Pre-Algebra class. An answer key is included in order for you to check your work.

Have a wonderful summer, The York Catholic Math Department

## PRE-ALGEBRA SUMMER PRACTICE

Name: $\qquad$

1. Find the area of the figure.

2. Tickets to a basketball game cost $\$ 4$ for adults and $\$ 2$ for children. Write an expression that gives the total cost for $a$ adults and $c$ children to attend the game. What is the total cost for a family of 2 adults and 3 children to attend the game?

Perform the indicated operation.
3. $\frac{7}{9} \times \frac{6}{5}$
4. $2.35 \times 4$
5. $3 \frac{1}{8} \times 2 \frac{4}{9}$
6. $0.35 \times 1.2$
7. $\frac{3}{5} \div \frac{1}{4}$
8. $2 \frac{1}{4} \div \frac{3}{8}$
9. $3.6 \div 3$
10. $0 . 2 5 \longdiv { 7 . 3 8 }$

Write the decimal as a fraction or mixed number in simplest form.
11. 0.6
12. 3.36
13. 0.325

## Write the fraction as a decimal.

14. $\frac{3}{5}$
15. $\frac{3}{8}$
16. $\frac{31}{25}$
17. A recipe for a batch of 3 dozen chocolate chip cookies calls for 3 cups of flour, 1 cup of sugar, and 2 cups of chocolate chips. How much of each ingredient should be used to make 2 dozen cookies?

## Evaluate.

18. $10 \%$ of 50
19. $24 \%$ of 102
20. . $5 \%$ of 200
21. A twelve-pack of juice costs $\$ 4.20$. An eighteen-pack costs $\$ 5.40$. Which is the better buy?

Write the fraction or decimal as a percent.
22. $\frac{3}{8}$
23. 0.76
24. $\frac{6}{5}$
25. 3.25
26. Use a number line to order $42 \%, \frac{5}{12}$, and 0.425 from least to greatest.
27. A pizza shop offers $20 \%$ off the price of a large pizza every Tuesday night. If the regular price is $\$ 25$, what is the discounted price?
28. Write the ratio of basketballs to footballs as a fraction in simplest form.

29. You run 6 miles in 1 hour. At this rate, how long will it take you to run a marathon (approximately 26 miles)?
30. Determine the mean, median, mode, and range for the data.

$$
3,8,6,6,6,4,9,9,12
$$

## ANSWER KEY

1) 12 square units
2) $76 \%$
3) $2 a+3 c=$ total; $(2 \times 4)+(3 \times 2)=\$ 14$
4) 120\%
5) $\frac{14}{15}$
6) $325 \%$
7) 9.4
8) Least to Greatest: $\frac{5}{12}, 42 \%, .425$
9) $7 \frac{23}{36}$
10) \$20
11) .42
12) $2 \frac{2}{5}$
13) 6
14) $\frac{2}{3}$
15) 1.2
16) 29.52
17) $\frac{3}{5}$
18) $3 \frac{9}{25}$
19) $\frac{13}{40}$
20) 6
21) .375
22) 1.24
23) 2 c flour, $\frac{2}{3}$ c sugar, $1 \frac{1}{3}$ c choc. chips
24) 5
25) 24.48
26) 1
27) $\$ 4.20 / 12$ or $\$ 5.40 / 18 \quad \$ .35 /$ each or $\$ .30 /$ each - so $\$ 5.40 / 18$ is the better buy
28) $37.5 \%$
