# WELCOME TO 7<sup>TH</sup> GRADE WE LOVE MATH AT YC!!

Summer 2023

Dear 7<sup>th</sup> 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<sup>th</sup> 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:\_\_\_\_\_

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 × 4 5.  $3\frac{1}{8} \times 2\frac{4}{9}$  6. 0.35 × 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.  $0.25\overline{)7.38}$ 

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
	0		5		

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.

## **ANSWER KEY**

1) 12 square units	23) 76%				
2) 2a + 3c = total; (2 x 4) + (3 x 2) = \$14	24) 120%				
3) $\frac{14}{15}$	25) 325%				
4) 9.4	26) Least to Greatest: $\frac{5}{12}$ , 42%, .425				
5) $7\frac{23}{36}$	27) \$20				
6) .42	28) $\frac{2}{3}$				
7) $2\frac{2}{5}$	29) $4\frac{1}{3}$ hours or 4 hours and 20 minutes				
8) 6	30) Mean: 7; Median: 6; Mode: 6; Range: 9				
9) 1.2					
10) 29.52					
11) $\frac{3}{5}$					
12) 3 <del>9</del> 25					
13) $\frac{13}{40}$					
14) .6					
15) .375					
16) 1.24					
17) 2 c flour, $\frac{2}{3}$ c sugar, $1\frac{1}{3}$ c choc. chips					
18) 5					
19) 24.48					
20) 1					
21) \$4.20/12 or \$5.40/18 \$.35/each or \$.30/each - so \$5.40/18 is the better buy					
22) 37.5%					