

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

**Summer 2022**

**Dear 7<sup>th</sup> grade math student:**

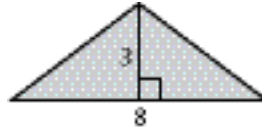
**Along with practicing your basic facts (times tables) over the summer, please work on the enclosed packet. It contains a number of math computation and skills review problems. They are concepts with which you should be familiar. In 7<sup>th</sup> grade you will build upon the knowledge you already 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 \_\_\_\_\_ Date \_\_\_\_\_

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.  $0.25 \overline{)7.38}$

**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

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)  $2a + 3c = \text{total}; (2 \times 4) + (3 \times 2) = \$14$
- 3)  $\frac{14}{15}$
- 4) 9.4
- 5)  $7\frac{23}{36}$
- 6) .42
- 7)  $2\frac{2}{5}$
- 8) 6
- 9) 1.2
- 10) 29.52
- 11)  $\frac{3}{5}$
- 12)  $3\frac{9}{25}$
- 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  $\$5.40/18$      $\$.35/\text{each}$  or  $\$.30/\text{each}$  - so  $\$5.40/18$  is the better buy
- 22) 37.5%
- 23) 76%
- 24) 120%
- 25) 325%
- 26) Least to Greatest:  $\frac{5}{12}$ , 42%, .425
- 27) \$20
- 28)  $\frac{2}{3}$
- 29)  $4\frac{1}{3}$  hours or 4 hours and 20 minutes
- 30) Mean: 7; Median: 6; Mode: 6; Range: 9