

**WELCOME TO 7TH GRADE
WE LOVE MATH AT YC!!**

Summer 2024

Dear 7th grade math student:

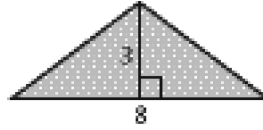
Along with practicing your basic facts (times tables) over the summer, please work on the enclosed packet. It contains a number of math computation and skills review problems. They are concepts with which you should be familiar. In 7th grade you will build upon the knowledge you already have in these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

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/each or \$.30/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