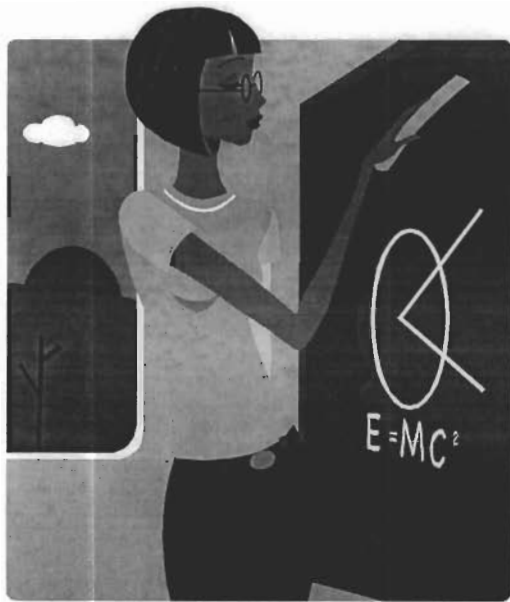


# Math CMT Practice Packet # 1



Grade 8

Bridgeport Public Schools

*Grade 8*  
**Math CMT Practice Packet #1**

1. Here is a number pattern

480, 240, 120, 60, \_\_\_\_\_, \_\_\_\_\_

Please give a rule for this pattern and fill-in the next two numbers in the pattern.

Rule:

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2.  $\frac{3}{4}$  of the seventh graders said their favorite type of music is rap. What percent of students did **NOT** choose rap as their favorite type of music?

- a. 34%
- b. 0.75%
- c. 50%
- d. 25%

3. If Joe is  $5\frac{1}{4}$  feet tall, he is:

- a. a little more than 5 feet tall
- b. a little less than 5 feet tall
- c. a little less than 6 feet tall
- d. a little more than 6 feet tall

4. Dominique needs to multiply 909 and 219. To get a good **ESTIMATE** of this product, which expression would be **BEST** for Dominique to use?

- a.  $900 \times 200$
- b.  $800 \times 200$
- c.  $900 \times 100$
- d.  $90 \times 200$

5. Solve this problem.

$$9.6 + 0.03 =$$

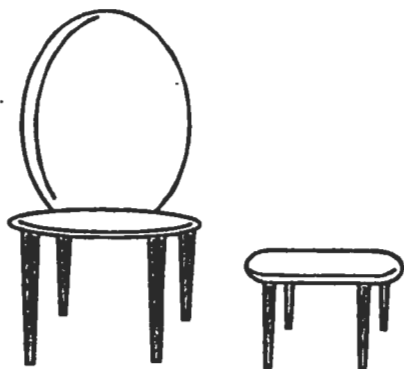
6. Solve this problem

$$\frac{5}{6} - \frac{1}{3} =$$

7. A spinner is divided into 5 equal parts with sections numbered 1, 2, 3, 4, & 5.

Kelly gave the spinner a spin. What is probability that the spinner will show an even number.

- a.  $\frac{1}{2}$
- b. 1
- c.  $\frac{2}{5}$
- d.  $\frac{1}{5}$



8. If the height of the chair is 91 centimeters, ABOUT how high is the footstool?

The footstool is \_\_\_\_\_ cm high.

9. Draw a picture of a pentagon.

10. What is the BEST unit to measure the distance from New York to Ansonia?

- a. millimeters
- b. centimeters
- c. meters
- d. kilometers

Use the table to answer question 11. The table below shows the number of dogs for 10,000 people in several countries.

Country	Number of dogs per 10,000 population
Sweden	2.4
United States	3.9
Saudi Arabia	1.5
Japan	3.6
Chile	2.8

11. On the number line below mark the point that shows the number of dogs per 10,000 people in Japan?



12. Dr. Roth is an eye doctor. Which eye color will he be LEAST likely to see in his office?

- a. blue
- b. brown
- c. violet
- d. hazel

Eye Color of Patients

Brown	38
Green	25
Hazel	10
Blue	18
Violet	9

NAME \_\_\_\_\_

13. Jennifer needs to subtract 3.03 from 29.6

Show the numbers you would use to ESTIMATE this difference. Then write one or two sentences to explain why you used those numbers.

Numbers used: \_\_\_\_\_

Explanation: \_\_\_\_\_

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14. Write a diary of your daily activities for 24 hours.

Make a graph of this information.

What fractional part of your day did you spend eating? \_\_\_\_\_

What percent of the day did you spend sleeping? \_\_\_\_\_

How similar is this day to a school day? \_\_\_\_\_

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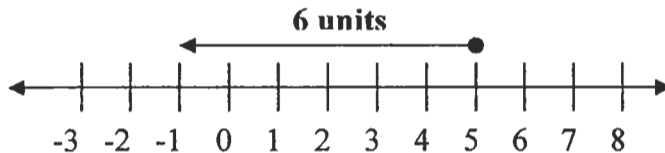
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15. Which of the following shows the numbers in order from **LEAST** to **GREATEST**:

4, -8, 3, 0, -5, -2, 1

- a. -8, -5, -3, -2, 0, 1, 4
- b. -8, -5, 4, -3, -2, 1, 0
- c. 4, 1, 0, -2, -3, -5, -8
- d. 0, 1, -2, -3, 4, -5, -8

16. The number line below represents which of the following subtraction problems:



- a.  $5 - (-1)$
- b.  $5 - 6$
- c.  $6 - (-1)$
- d.  $6 - 5$

17. Each band member had 24 tickets to sell to the Fall Concert. Kim sold  $\frac{1}{2}$  of hers. Jamie sold  $\frac{2}{3}$  of his. Matt sold  $\frac{3}{4}$  of his and Sally sold  $\frac{7}{12}$  of hers. Which list shows the band members in order from **GREATEST** to **LEAST**?

- a. Matt, Kim, Jamie, Sallie
- b. Matt, Jamie, Sallie, Kim
- c. Jamie, Matt, Kim, Sallie
- d. Jamie, Kim, Sallie, Matt

18. What is the ratio of squares to octagons in the diagram below?



- a. 4 : 10
- b. 10 : 4
- c. 14 : 8
- d. 18 : 4

5.

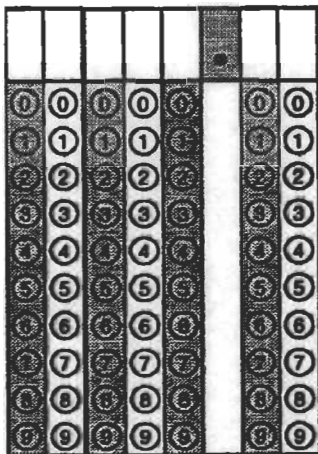
19. Which value of  $n$  makes the following proportion true?

$$\frac{n}{5} = \frac{3}{10}$$

- a. 15      b. 11.67      c. 4.2      d. 1.5

20. What value of  $x$  makes this equation true?

$$92 = 2x$$



21. Evaluate  $16 + x^2 \div 4$  when  $x = 7$

- a. 7.5      b. 16.25      c. 19.5      d. 28.25

22. What value of  $x$  makes the equation below true?

$$3x + 2(x - 5) = 50$$

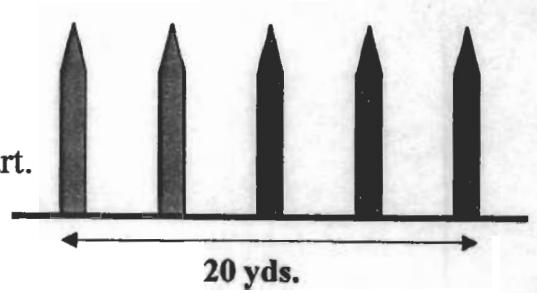
- a. 8      b. 9      c. 11      d. 12

23. What is the value of the expression?

$$18(x - 3y) \text{ when } x = 10 \text{ and } y = 4$$

- a. -54      b. -36      c. 108      d. 396

24. The drawing at the right shows the posts for a fence. The first and last posts are **20 yards** apart. About how many **feet** apart are each post to the next, if the posts are equally spaced?



- A. 20 feet   B. 10 feet   C. 5 feet   D. 2 feet

25. The formula  $C = \$25 + \$8.65 \cdot B$  is used to find the total cost (**C**) of producing a given number of benches (**B**) in a factory. The formula also includes \$25 for transportation. What is the total cost of producing 18 benches?

Show or explain how you determined your answer in the space below.

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