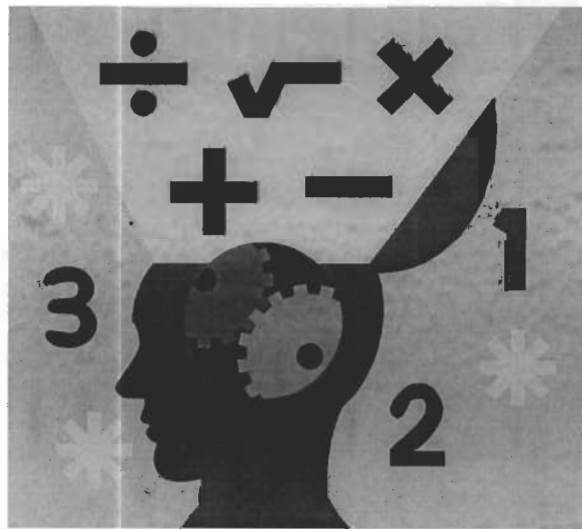


Math CMT Practice Packet # 1



Grade 7

Bridgeport Public Schools

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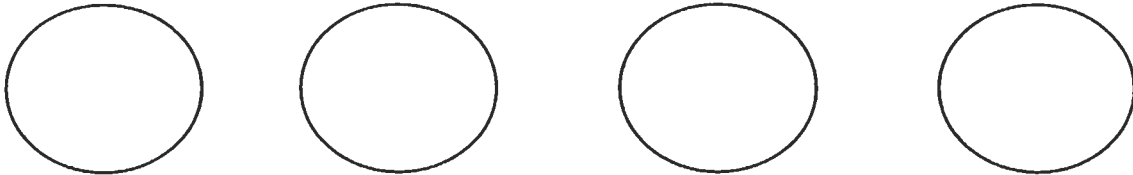
1. What is another way of writing $\frac{7}{4}$.

- a. 1 and $\frac{4}{7}$
- b. 1 and $\frac{1}{2}$
- c. 1 and $\frac{3}{4}$
- d. 1 and $\frac{1}{4}$

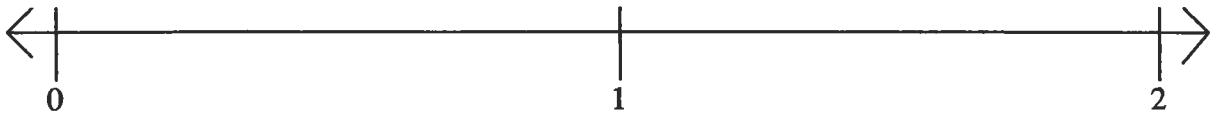
2. Write the number that should come next in this pattern. Then write a sentence to explain how you decided what to write.

130, 105, 80, 55, _____

3. Shade in $3\frac{3}{8}$ circles.



4. Mark an "X" on the number line in the place that represents 1.6



5. The school day lasts $6\frac{3}{4}$ hours. This number is

- a. a little less than 6 hours
- b. a little more than 6 hours
- c. a little less than 7 hours
- d. a little more than 7 hours

The table shows the height of four seventh graders.

Student	Height in Inches
Darla	65.0
Joan	63.5
Mike	60.8
Tom	64.5

6. Which student is the tallest?

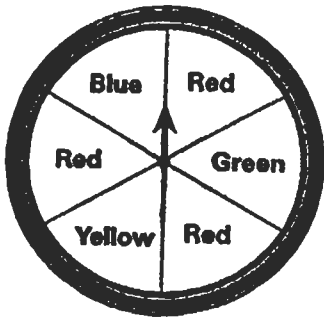
- a. Darla
- b. Joan
- c. Mike
- d. Tom

7. The star player on the school baseball team had a batting average between 0.325 and 0.370. Which of these numbers could have been his batting average?

- a. 0.317
- b. 0.324
- c. 0.355
- d. 0.380

8. If Brian spins this spinner once, on which color is it MOST likely to land? Explain why you picked that color.

Color = _____



9. Suppose you are playing Scrabble and these tiles are left. What is the probability that you will pick a vowel?

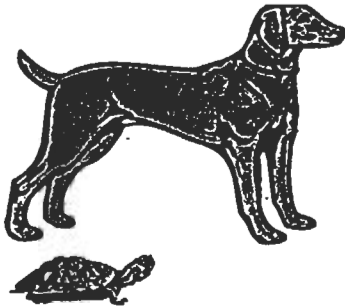
I S N A R T L O

- a. $\frac{1}{2}$
- b. $\frac{3}{8}$
- c. $\frac{1}{4}$
- d. 1

10. The length of a classroom would BEST be measured in

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

11. The length of the turtle is 30 centimeters; ABOUT how long is the length of the dog?



30 centimeters

- a. 50 cm
- b. 60 cm
- c. 75 cm
- d. 100 cm

NAME _____

12. Keep a food diary for two days. Write down everything you eat.

HINT: Ratio = 1 out of 5

How many sodas _____

How many candy bars _____

How many handfuls of chips _____

How many servings of milk _____

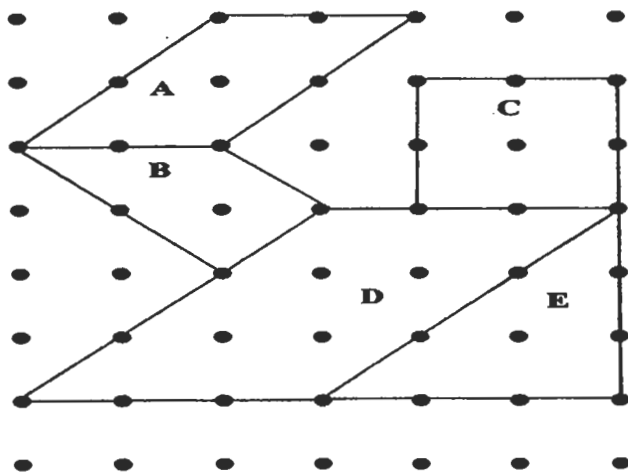
How many $\frac{1}{2}$ cup servings of vegetables _____

Make a bar graph to display this information

Write a ratio to compare the number of chips to the number of servings of vegetables

What percent is this? _____

Use the drawing below to answer questions 13 and 14.



13. Which two figures are similar? _____

14. Describe how you know what makes them similar?

15. A farmer needs to order 12 months of feed for his cows. He uses about 285 tons of hay each month. What is a reasonable **estimate** for the number of tons of hay he should order?

- a. 4,000 b. 3,600 c. 2,500 d. 2,000

16. Mary Jo needs to set up 3,140 chairs for a concert. She wants to put 60 chairs in each row. Which statement is the **BEST estimate** of how many rows she needs to set up and **BEST** explains why the estimation is reasonable?

- a. 500; the number of chairs was rounded up, so the estimate is reasonable.
b. 500; the number of chairs was rounded down, so the estimate is reasonable.
c. 50; rounding the total number of chairs to the nearest thousand before dividing by 60 gives a reasonable estimate because $3,140 \div 60$ is close to $3,000 \div 60$.
d. 30; rounding the total number of chairs down to the nearest thousand and the number of chairs in each row up to 100 balances the estimation.

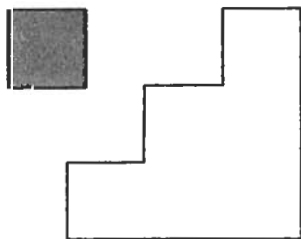
17. Saul's recipe makes 80 cookies with 3 cups of flour. How many cookies does the recipe make with 9 cups of flour?

- a. 27 b. 89 c. 720 d. 240

18. Maria needs to score at least 90% on her next test to make an A in math. If there are sixty questions on the test, how many questions does she need to answer correctly?

- a. 54 b. 60 c. 36 d. 6

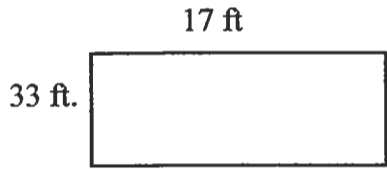
19. If the area of the shaded square is 15 sq. cm, what is the approximate area of the larger figure?



- a. 120 sq. cm b. 100 sq. cm c. 140 sq. cm d. 6 sq. cm

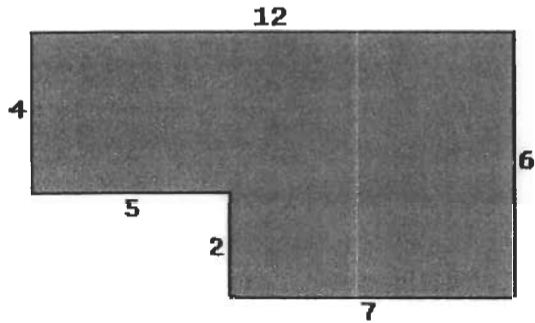
20. Solve this problem.

Margo wants to cover the bedroom floor with carpeting. If the figure below represents the dimensions of the room, how much square foot of carpeting should Margo buy?



- a. 50 ft.² b. 100 ft.² c. 267 ft.² d. 561ft.²

21. What is the area of the shape drawn below.



- a. 36 b. 48 c. 62 d. 72

22. If you were to cut and flatten this cylinder, what plane figures would you have created?



- a. 2 circles, 1 rectangle b. 2 circles, 1 trapezoid
c. 1 circle, 1 rectangle d. 1 circle, 1 square

23. Find the value of this expression: $48 \div 4 + 4 \times 3$

- a. 18 b. 24 c. 48 d. 2

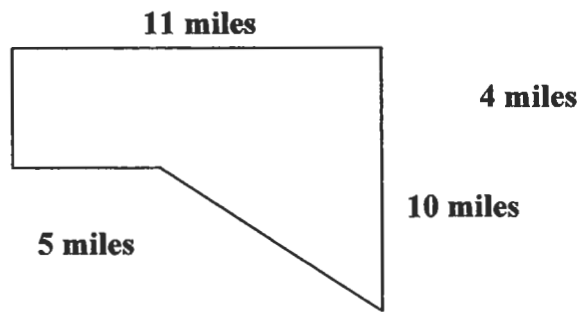
24. Manny wanted to visit his brother in college. He estimated how long the trip would take to drive the 360 miles to his brother's college. Manny used the formula,

$$d = r \cdot t$$

where the d represents distance, r represents rate and t represents time. If they average 60 miles per hour, how long should it take to drive to see Manny's brother in college?

- a. 6 b. 330 c. 3 d. 60

25. A town planner sketches the map of his community shown below.



Use the distances on the map to make an estimate of the number of square miles in the community.

Your estimate: _____ square miles

Show or explain how to arrive at a correct solution to the figure above.

Actual Area: _____