

Muscle Shoals Middle School Math Tournament

November 2, 2013

Fifth Grade Written Test

1. Find the perimeter of a triangle whose sides have lengths of 4 cm, 8 cm, and 9 cm.

- a. 12 cm                      b. 17 cm                      c. 288 cm                      d. 21 cm

2. What is  $\frac{1}{3}$  of 810?

- a. 270                      b. 207                      c. 27                      d. 2430

3. How many days are in 52 weeks?

- a. 59                      b. 365                      c. 364                      d. 260

4. Which name best describes the figure?



- a. Ray                      b. Segment                      c. Line                      d. Plane

5. Find the unknown number:  $57 - x = 29$

- a. 86                      b. 30                      c. 32                      d. 28

6. Find the sum of 7,824 and 3,677.

- a. 11,591                      b. 11,501                      c. 4,253                      d. 4,147

7. What are the next three terms in the sequence?

1, 4, 3, 6, 5, 8, \_\_, \_\_, \_\_,...

- a. 11, 14, 17                      b. 7, 10, 9                      c. 11, 10, 13                      d. 7, 8, 10

8. What is the place value of the 5 in 123,456,789,000?

- b. Ten thousands                      b. Ten billions                      c. Ten millions                      d. Hundred thousands

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9. Mason separated his 150 trading cards into 7 equal groups. The leftover cards he placed in a box. How many cards did he place in the box?
- a. 7                      b. 21                      c. 10                      d. 3
10. What number is halfway between 37 and 91?
- a. 45                      b. 57                      c. 61                      d. 59
11. Which numbers are prime?
- a. 1, 2, 3                      b. 2, 3, 4                      c. 2, 3, 5                      d. 1, 2, 4
12. Ronald Reagan, the 40<sup>th</sup> (fortieth) President of the United States, was born on February 6, 1911 in Tampica, Illinois. His presidency began in January, 1981 and ended in January, 1989. How old was Ronald Reagan when he took office?
- a. 69 years old                      b. 78 years old                      c. 70 years old                      d. 79 years old
13. Your heart beats about 72 beats a minute. At that rate, how many times will it beat in one hour?
- a. 432                      b. 720                      c. 7200                      d. 4,320
14. Simplify:  $3\frac{1}{8} - 1\frac{7}{8}$
- a.  $2\frac{3}{4}$                       b.  $1\frac{1}{2}$                       c.  $1\frac{1}{4}$                       d.  $2\frac{1}{2}$
15. The perimeter of a square is 8 cm. What is the area of the square?
- a.  $16 \text{ cm}^2$                       b.  $4 \text{ cm}^2$                       c.  $64 \text{ cm}^2$                       d.  $32 \text{ cm}^2$

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16. A bag contains 5 red marbles, 4 yellow marbles, and 3 green marbles. What is the probability that John will draw a green marble from the bag?

a.  $\frac{1}{4}$

b.  $\frac{5}{12}$

c.  $\frac{1}{3}$

d.  $\frac{3}{5}$

17. What is the perimeter of a hexagon with each side 9 cm?

a. 63 cm

b. 72 cm

c. 45 cm

d. 54 cm

18. What temperature is  $23^{\circ}$  less than  $8^{\circ}\text{F}$ ?

a.  $15^{\circ}\text{F}$

b.  $-15^{\circ}\text{F}$

c.  $-31^{\circ}\text{F}$

d.  $-23^{\circ}\text{F}$

19. Angle A and angle B are complementary angles. If the measure of angle A is  $62^{\circ}$  what is the measure of angle B?

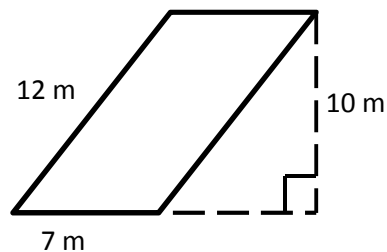
a.  $118^{\circ}$

b.  $28^{\circ}$

c.  $62^{\circ}$

d.  $38^{\circ}$

20. Find the area of the parallelogram.



a.  $41\text{ m}^2$

b.  $120\text{ m}^2$

c.  $70\text{ m}^2$

d.  $84\text{ m}^2$

21. If the tax rate is 8%, what is the tax on a \$23.90 purchase?

a. \$25.81

b. \$19.10

c. \$1.91

d. \$2.00

22. The students of Mrs. Sweet's cooking class will be making biscuits. If 56 students each work with a partner to make one batch of biscuits, how much flour will Mrs. Sweet need to buy if the recipe calls for  $1\frac{3}{4}$  cups of flour?

a. 49 cups

b. 98 cups

c. 56 cups

d. 16 cups

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23. Simplify:  $5 - (8 + 8) \div \sqrt{16}$

a. 3

b.  $\frac{-11}{4}$

c. 1

d. 4

24. What percent of the first ten letters of the alphabet are consonants?

a. 70%

b. 30%

c. 20%

d. 80%

25. Find the circumference of a circle with a radius of 3 cm. (Use 3.14 for  $\pi$ )

a. 9.42 cm

b. 28.26 cm

c. 37.68 cm

d. 18.84 cm

TB 1  $-3 + 7 - (-20) + 6 = ?$

TB2 Solve for x:  $2x + 2 = 20$

TB3  $(4 \text{ ft } 3 \text{ in}) - (2 \text{ ft } 9 \text{ in}) = ?$