

Ms. RYAN

June 2009

## Summer Math Packet

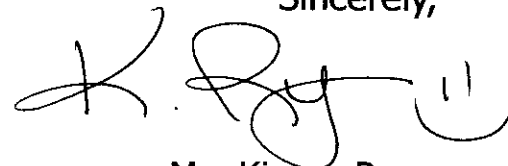
Dear Students,

The following packet contains the math review that must be completed before the start of the 2009—2010 school year. These activities are varied and designed to show help prepare you for next year. There will be problems that you will have difficulty with. However, try your best to complete the entire packet.

You are expected to complete the entire packet. All work can be completed in the packet, if you need more space you may use scrap paper. Please attach the scrap paper to the packet before handing it in. All work should be returned to me during the first week of school.

I hope you have a wonderful summer and I look forward to seeing you in September. If you have any questions please feel free to email me. I will be checking my Montville email all summer.

Sincerely,



Ms. Kimen Ryan

LAZAR MIDDLE SCHOOL

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Name: \_\_\_\_\_ Date: \_\_\_\_\_  
8<sup>th</sup> Grade Summer Math Packet

Use 456,812 to find the value of these digits.

1. The digit 4

2. The digit 6

3. The digit 1

Round the following to the nearest thousand.

4. 4,461

5. 911

6. 31,769

Add.

$$\begin{array}{r} 7. 38 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8. 256 \\ + 153 \\ \hline \end{array}$$

$$\begin{array}{r} 9. 2,636 \\ + 328 \\ \hline \end{array}$$

Subtract.

$$\begin{array}{r} 10. 25 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 11. 256 \\ - 167 \\ \hline \end{array}$$

$$\begin{array}{r} 12. 1,735 \\ - 378 \\ \hline \end{array}$$

Multiply.

$$\begin{array}{r} 13. 36 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 14. 56 \\ \times 38 \\ \hline \end{array}$$

$$\begin{array}{r} 15. 67 \\ \times 54 \\ \hline \end{array}$$

**Divide.**

16.  $659 \div 3 =$

17.  $562 \div 23 =$

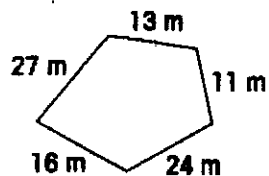
18.  $2474 \div 78 =$

**Guess, check, and revise to solve the problem**

19. Cameron is three years older than Karlee. Karlee is two years older than Denise. The sum of Cameron, Karlee, and Denise's ages is 49. How old is each person?

**Name the figure. Find its perimeter.**

20.



**Find the value of each number expression.**

1.  $14 - 8$

2.  $30 \div 11$

3.  $22 \div 1$

4.  $10 \times 3$

5.  $42 \div 6$

6.  $18 \div 1$

**Simplify.**

7.  $15 - 4 \cdot 3$

8.  $2 \cdot 3$

9.  $2(2 + 3) - 1$

**Tell whether the expressions are equivalent. Write yes or no. If yes, write an equation.**

10.  $12 \times 3$  and 9

11.  $27 \div 9$  and 3

12.  $4 + 3$  and  $(4 + 3)$

13.  $12 \div 3$  and  $2 \cdot 2$

14.  $3 \cdot 6$  and  $23 - 5$

15.  $24 \div 4$  and  $5 + 2$

Name the property shown.

16.  $5 + 3 = 3 + 5$

17.  $(6 \cdot 9) \cdot 4 = 6 \cdot (9 \cdot 4)$

18.  $11 \times 0 = 0$

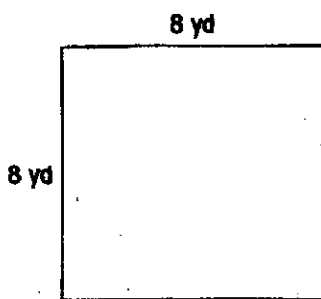
Write a number equation for each.

19. Luisa sold 4 sweatshirts. Each sweatshirt costs \$20. She sold a total of \$80.

20. Ed drives 15 miles each day. He drives 7 days a week. In one week, he drives 105 miles.

Find the area.

21.



22.



Choose the letter for the correct answer

Use the chart to answer Questions 1–2.

Regular polygon	Number of Sides	Length of each side
triangle	3	2 in.
pentagon	5	5 in.
hexagon	6	3 in.
heptagon	7	1 in.

1. Find the perimeter of the hexagon.

- a. 6 in
- b. 7 in
- c. 18 in

d. 25 in

2. Which has the greatest perimeter?

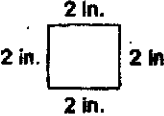
- a. Triangle
- b. Pentagon

- c. Hexagon
- d. heptagon
3. Philip is twice as old as Maria. Maria is two years younger than Pedro. The sum of their ages is 26. How old is Pedro?
- a. 6 years
- b. 8 years
- c. 12 years
- d. 15 years
4. Find the area of a rectangle that is 20 miles long and 5 miles wide.
- a. 50 miles
- b. 100 miles
- c. 50 square miles
- d. 100 square miles
5. Which expression would you use to find the area of this square?
- a.  $2 \text{ in} \times 2 \text{ in}$

b.  $2 \text{ in} + 2 \text{ in}$

c.  $2 \text{ in} + 2 \text{ in} + 2 \text{ in} + 2 \text{ in}$

d.  $2 \text{ in} \times 2 \text{ in} \times 2 \text{ in} \times 2 \text{ in}$


6. Rosita baked 48 cookies. She put the cookies onto 6 plates. How many cookies are on each plate? Which number equation solves the problem?
- A.  $6 \times 8 = 48$
- B.  $48 \div 8 = 6$
- C.  $48 \div 6 = 8$
- D. None of the above

**Choose the letter for the correct answer.**

Here is a frequency table of a survey. Use the table to answer Questions 1 and 2.

Favorite Colors	
Color	Tally
Red	
Blue	
Green	

7. How many people like the color red?
- a. 3
- b. 4
- c. 8
8. How many people answered the survey about favorite colors?
- a. 8
- b. 12
- c. 24
9. Bill wants to fence in a garden that is 10 ft wide and 20 ft long. Which expression can be used to find how much fencing he needs?
- a.  $L \times w$
- b.  $2l + 2w$
- c.  $L \times w \times h$

d.  $2(l \times w)$

10. Which is the volume of a box with height of 5 in., width of 3 in., and a length of 10 in.?

- a. 18 cubic inches
- b. 80 cubic inches
- c. 150 cubic inches
- d. 180 cubic inches

11. Which is the width of a rectangle with a length of 8 cm and an area of  $48 \text{ cm}^2$ ?

- a. 6 cm
- b. 12 cm
- c. 40 cm
- d. Not given

12. Which are the next two numbers in this number pattern? 8, 10, 9, 11, 10, ?, ?

- a. 10, 11
- b. 12, 11
- c. 11, 12
- d. 10, 12

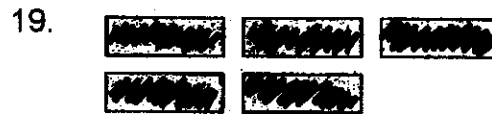
13. Tell whether 168 is divisible by 12.

14. Tell whether 230 is divisible by 10.

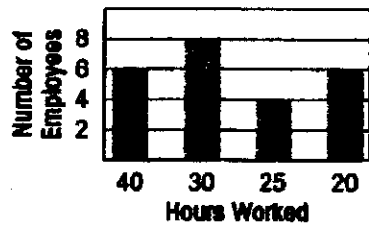
**Write a fraction for the shaded part.**



**Write a fraction and a whole number or a mixed number for the shaded strips.**



Use the bar graph to answer Questions 1 and 2.



1. What is the number of employees that work 25 hours?
  - a. 4
  - b. 6
  - c. 8
  - d. 2
2. What is the number of hours worked by most employees?
  - a. 8
  - b. 25
  - c. 30
  - d. 40
3. The rainfall for four months is 2.7 in., 4.6 in., 1.8 in., and 0.9 in. What is the average rainfall?
  - a. 2.25 in
  - b. 4.0 in
  - c. 2.5 in
  - d. Not given
4. A restaurant has 3 sizes of pizza and 9 toppings. How many pizzas can you order with 1 topping?
  - a. 11
  - b. 5
  - c. 3
  - d. 27
5. A company makes a shirt in 4 sizes, 9 colors, and either long or short sleeves. How many shirts does the company make?
  - a. 54
  - b. 72
  - c. 15
  - d. 38