

RIVERDALE PUBLIC SCHOOL DISTRICT

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June 2011

Dear Parents/Guardians.

In order for students to be ready for their mathematics program this fall, Riverdale School requires that incoming Sixth grade students complete the attached Mathematics Review Activities Packet. These review activities were previously taught. Therefore students are not expected to learn new material on their own.

We need your help to oversee the completion of the summer mathematics review questions. At the bottom of this page is a tear-off which should be returned no later than June 17th to your child mathematics teacher. Attached is a copy of the Summer Mathematics Review Activities Packet. The completed activities packet needs to be signed by the parents/ guardians and returned on September 9, 2011.

With your help, this summer mathematics review program will be successful in helping your child be ready for the new school year.

Summer Mathematics 2011

I have received the notification about requirement about the Summer Mathematics Review Activities Packet for all students.

Student's Name

Parent's Name

Student's Signature

Parents Signature

Please return form by June 17th

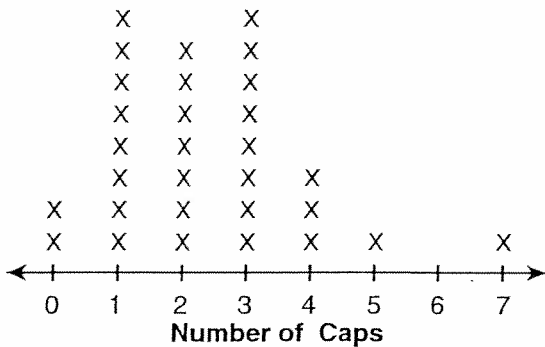
Name _____

Parent Signature _____

SUMMER MATH REVIEW ACTIVITIES
INCOMING 6TH GRADE MATH

- ① Neil used computer software to collect data and create a line plot. The line plot shows the number of baseball caps that students in one class own.

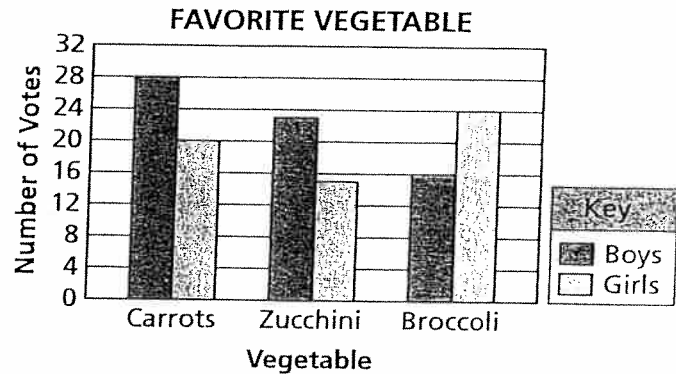
BASEBALL CAPS OWNED BY STUDENTS



Which statement below is not true?

- A. There is a gap between 5 and 7 caps.
- B. The data clusters around 1 to 3 caps.
- C. More than half of those surveyed own 3 or more caps.
- D. More students own 4 caps than own 5.

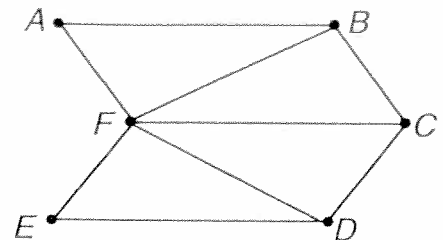
- ③ The double-bar graph shows a group of students' favorite vegetables.



How many more students voted for carrots than for broccoli?

- A. 48
- B. 16
- C. 40
- D. 8

- ④ Use the vertex-edge graph below to answer questions ~~100~~.



How many vertices are there?

- A. 2
- B. 4
- C. 6

- ② Which of the following is true about the data set below?

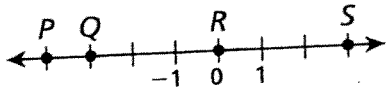
3, 3, 4, 5, 4, 8, 5, 6, 8, 7, 9, 3, 6

- A. There is no mode.
- B. The mode is 3.
- C. The mode is 6.
- D. There are two modes, 7 and 9.

5) A baseball team manager lists the batting averages of four players on the team. Which list shows their batting averages in order from greatest to least?

- A. 0.298, 0.336, 0.283, 0.332
- B. 0.336, 0.332, 0.283, 0.298
- C. 0.336, 0.298, 0.332, 0.283
- D. 0.336, 0.332, 0.298, 0.283

6) Which point on the number line is located at -3 ?



- A. point P
- B. point Q
- C. point R
- D. point S

7) What is the difference in height between a tree that is 4.56 meters tall and a building that is 8.2 meters tall?

- A. 3.36 meters
- B. 3.64 meters
- C. 4.36 meters
- D. 4.64 meters

8) Ted multiplied two factors and found a product that is greater than the product of 0.3×0.9 . Which calculation did Ted perform?

- A. 3×0.09
- B. 0.03×9
- C. 30×0.09
- D. 3×0.009

9) Ben keeps quarters in a jar. The value of the quarters is \$6.25. How many quarters does he have?

- A. 20
- B. 25
- C. 30
- D. 35

10) Which expression is equivalent to 8^2 ?

- A. $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$
- B. 8×8
- C. $8 + 8$
- D. 8×2

11) Which lists all of the factors of 42?

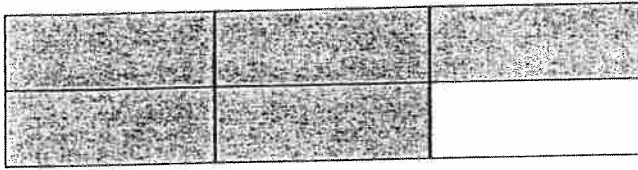
- A. 1, 2, 3, 6, 7, 14, 21, 42
- B. 3, 7, 21, 42
- C. 1, 6, 7, 42
- D. 3, 6, 7, 14

12) Which number is a common multiple of both 8 and 12?

- A. 16
- B. 40
- C. 48
- D. 54

13

What fraction of the rectangle is shaded?



- A. $\frac{1}{6}$
- B. $\frac{1}{5}$
- C. $\frac{5}{6}$
- D. $\frac{5}{1}$

14

In which set are all the fractions equivalent?

- A. $\frac{1}{4}, \frac{2}{8}, \frac{3}{15}, \frac{4}{24}$
- B. $\frac{1}{2}, \frac{2}{4}, \frac{6}{8}, \frac{5}{10}$
- C. $\frac{6}{16}, \frac{9}{24}, \frac{3}{8}, \frac{12}{32}$
- D. $\frac{7}{16}, \frac{3}{8}, \frac{1}{4}, \frac{9}{16}$

15

Which is equivalent to 0.72?

- A. $\frac{36}{25}$
- B. $\frac{19}{25}$
- C. $\frac{18}{25}$
- D. $\frac{72}{10}$

16

Mae studied for $\frac{1}{2}$ hour on Tuesday and $\frac{1}{4}$ hour on Wednesday. How long did Mae study in all?

- A. $\frac{1}{6}$ hour
- B. $\frac{2}{6}$ hour
- C. $\frac{2}{4}$ hour
- D. $\frac{3}{4}$ hour

17

Les worked for $6\frac{1}{2}$ hours on Saturday and $4\frac{2}{3}$ hours on Sunday. How long did Les work in all?

- A. $11\frac{1}{2}$ hours
- B. $11\frac{1}{6}$ hours
- C. $10\frac{3}{5}$ hours
- D. $10\frac{1}{6}$ hours

18

A recipe for making brownies calls for $1\frac{2}{3}$ cups of butter. Esther wants to triple the recipe. How many cups of butter does she need?

- A. $3\frac{2}{3}$ cups
- B. $4\frac{2}{3}$ cups
- C. 5 cups
- D. 6 cups

19

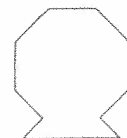
On Wednesday, 45% of the students in Danny's class had juice with lunch. What fraction of the students had juice with lunch?

- A. $\frac{9}{25}$
- B. $\frac{9}{20}$
- C. $\frac{4}{5}$
- D. $\frac{45}{10}$

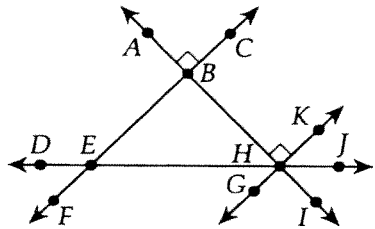
20

Which names the following figure?

- A. octagon
- B. pentagon
- C. decagon
- D. quadrilateral



21 Use the diagram below to answer questions.



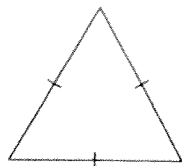
Which of the following is not on \overleftrightarrow{DJ} ?

- A. •D
- B. •F
- C. •H
- D. •J

22 Which is an acute angle?

- A.
- B.
- C.
- D.

23 Which of the following names the triangle shown?



- A. equilateral triangle
- B. obtuse triangle
- C. scalene triangle
- D. right triangle

24 Amy wants to build a rectangular corral. The area of the corral will be 240 square feet. Which length and width are not possible for Amy's corral?

- A. 18 feet and 12 feet
- B. 16 feet and 15 feet
- C. 30 feet and 8 feet
- D. 40 feet and 6 feet

25 Which expression below has a value of 17?

- A. $3 \times 6 + 4^2 \div 2$
- B. $3 \times (6 + 4^2) \div 2$
- C. $3 \times 6 + (4^2 \div 2)$
- D. $(3 \times 6 + 4^2) \div 2$

26 Each number in the sequence below has the same relationship to the number immediately before it.

2, 4, 8, 16, ...

How can the next number in the sequence be found?

- A. by adding eight to the previous number
- B. by multiplying the previous number by 2
- C. by dividing the previous number by 2
- D. by subtracting 8 from the previous number