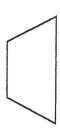
"M-ath"letes Challenge Championship 2010

TE	AM	Name	

Second Half Test

May 14, 2010

What is the total number of lines of symmetry that can be drawn on the trapezoid below?

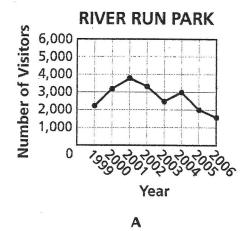


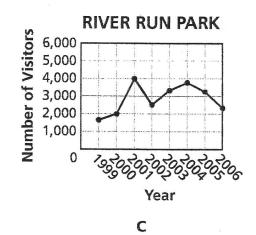
- **A** 4
- **B** 3
- **C** 2
- D 1
- Sara attended a dog show from 8:30 A.M. to 3:45 P.M. How long was Sara at the dog show?
 - A 4 hours 15 minutes
 - **B** 5 hours 15 minutes
 - C 6 hours 15 minutes
 - D 7 hours 15 minutes

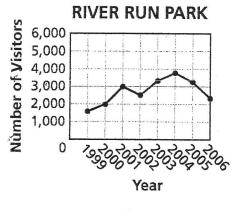
The data below describes the number of visitors at River Run Park.

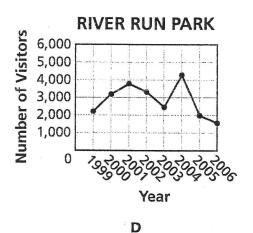
- After 2001, the number of visitors decreased each year except for 2004.
- In 2004, the greatest number of visitors was recorded.

Which line graph represents this data?







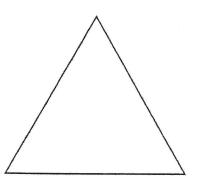


B

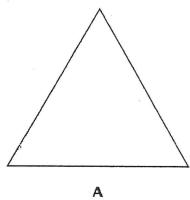


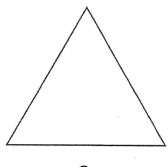
Use your ruler to help you solve this problem.

Fredo drew the equilateral triangle shown below.

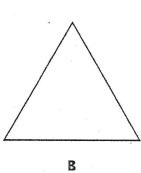


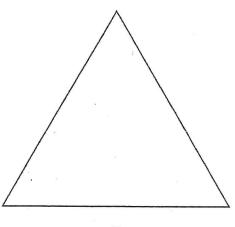
Which equilateral triangle is congruent to Fredo's triangle?





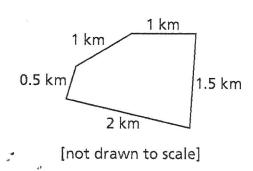
C

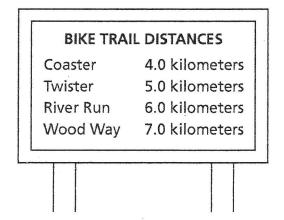




- **A** 2
- B 5
- C 11
- **D** 20

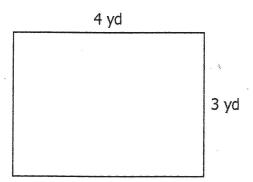
There are four bike trails in Garland Park. The diagram below shows one of the bike trails. The sign shows the distances of all of the bike trails.





Which bike trail does the diagram show?

- A Coaster
- **B** Twister
- C River Run
- **D** Wood Way



The area of the field shown in the picture is 12 -

A square inches

B G pounds

Square yards

D **1** meters



There are four hiking trails at Water's Edge Park. The table below shows the distance, in feet, from the beginning of each trail to a waterfall.

DISTANCE TO WATERFALL

Trail	Distance (in feet)	
1	768	
2	804	
3	741	
4	756	

Which trail begins 268 yards from the waterfall?

1 yard = 3 feet

A Trail 1

B Trail 2

C Trail 3

D Trail 4



The picture below shows all the faces of a solid.









Which solid could be formed by the faces shown?

A



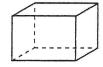
Be



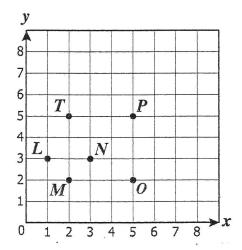
C



D O



The picture shows six points on a grid.



Which three points can be connected to form a right angle?

- A Points T, L, and N
- **B** Points L, P, and T
- ${\bf C}$ Points N, O, and P
- **D** Points M, O, and P

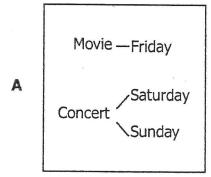


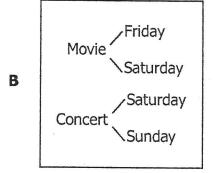
Joe wants to do something fun this weekend.

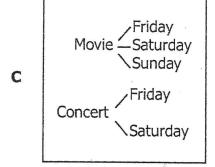
Weekend Options

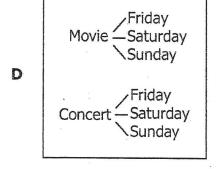
Event	Day	
Movie	Friday	
Concert	Saturday	
	Sunday	

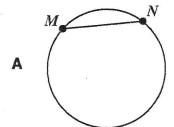
Which diagram shows all possible combinations Joe has if he picks 1 event and 1 day from the chart?

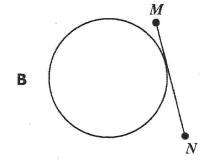


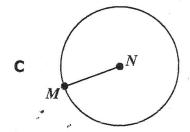


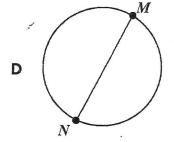


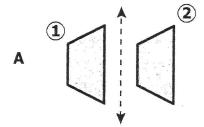


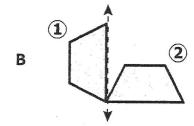


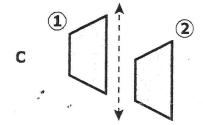


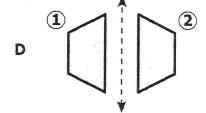






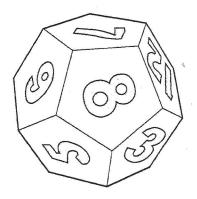








Celeste has a 12-sided solid with sides numbered 1 through 12.



What is the probability that she will roll a 4, 5, or 6 on the first roll?

- $A = \frac{3}{12}$
- $\beta \in \frac{4}{12}$
- $\begin{array}{c|c} C & \frac{5}{12} \end{array}$
- $\begin{array}{ccc}
 D & \frac{6}{12}
 \end{array}$

15

Mr. Copeland made a chart to display the number of each kind of prize he had in his prize box.

Prizes in the Prize Box

Kind of Prizes	Number
Balls	10
Puzzles	7
Lollipops	18
Poppers	15
Squirt rings	7
Stickers	21
Cars	6

What is the mode of the numbers in the chart?

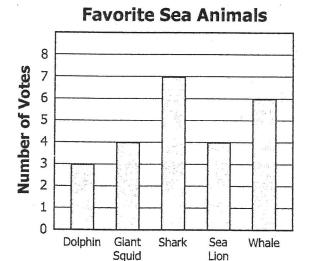
A 8 7

B 6 10

C # 12

D 3 15

Students in Mr. Malone's class voted for their one favorite sea animal. The results are shown below.



Animal

The greatest difference in the number of votes received was between the -

- A Giant Squid and Shark
- B Sea Lion and Whale
- C Giant Squid and Whale
- **D** "Dolphin and Shark

Pieces of paper numbered 1 through 31 are in a bag. Sal drew a piece of paper from the bag without looking. Which question could be answered using probability?

A F How many odd numbers are written on the pieces of paper?

 β \blacksquare Is the number Sal drew from the bag likely to be less than 10 ?

How many pieces of paper are in the bag before any are drawn out?

After Sal drew a piece of paper from the bag, how many pieces were left?



The chart shows the number of each color of counting chip Mr. Kellas placed in an empty box. All the chips were the same size and shape.

Counting Chips

Color	Number in Box	
Red	6	
Yellow	1	
Green	2	
Purple	6	
White	. 1	

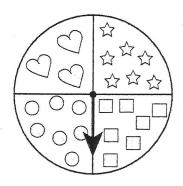
Ross is going to take 4 counting chips out of the box without looking. Which combination of counting chips could Ross take from the box?

A 2 purple, 2 white

B 2 red, 2 yellow

C 1 white, 3 purple

D 3 green, 1 yellow



What is the probability that the arrow will point to the section containing hearts on the first try?

- A 1 out of 3
- B 6 1 out of 4
- 3 out of 4
- D 3 out of 24

20

Which of the following can be solved using the open sentence s - 6 = ?

- A Pablo has 6 more vacation days than Sandra. If s represents the number of vacation days Sandra has, how many vacation days does Pablo have?
- Pablo has 6 times more vacation days than Sandra. If s represents the number of vacation days Sandra has, how many vacation days does Pablo have?
- Pablo has 6 fewer vacation days than Sandra. If *s* represents the number of vacation days Sandra has, how many vacation days does Pablo have?
- **D** Sandra has 6 times more vacation days than Pablo. If *s* represents the number of vacation days Sandra has, how many vacation days does Pablo have?

Mathematics Reference Sheet Grade 5

Use the information below, as needed, to answer questions on the Mathematics test.

	Square	Rectangle	Triangle
Manhander Garden and Control of the	Area = $\mathbf{s} \times \mathbf{s}$ Perimeter = $4 \times \mathbf{s}$	Area = $I \times W$ Perimeter = $(2 \times I) + (2 \times W)$	Perimeter = a + b + c

1 foot = 12 inches

1 cup = 8 ounces (oz)

1 kilogram = 1000 grams

1 yard = 3 feet

1 pint = 2 cups

1 meter = 100 centimeters

1 mile = 5,280 feet

1 quart = 2 pints

1 centimeter = 10 millimeters

1 gallon = 4 quarts

1 kilometer = 1000 meters

1 liter = 1000 milliliters

1 pound (lb) = 16 ounces (oz)

M-athletes Challenge Championship - 2nd Half

Name: KEY

- 1. (A) (B) (C) (O) P
- 2. (4) (8) (C) (C) (C)
- 3. ABO 1
- 4. B © O A
- 5. (B) (C) (D) (8
- 6. (A) (B) **(**B) (C)
- 7. (A) (B) (D) (C)
- 8. A O O O B
- 9. 🜒 🖲 💿 🐧 🥀
- 10. (A) (B) (C) (C) (D)
- 11. A B O A
- 12. AB D C
- 13. (A) (B) (C) (D)
- 14. ●®©⊙ A
- 16. (A) (B) (D) D
- 17. (2)
- 18. (A) (B) (D) C
- 19. A O O O B
- 20. (A) (B) (D) (C)