

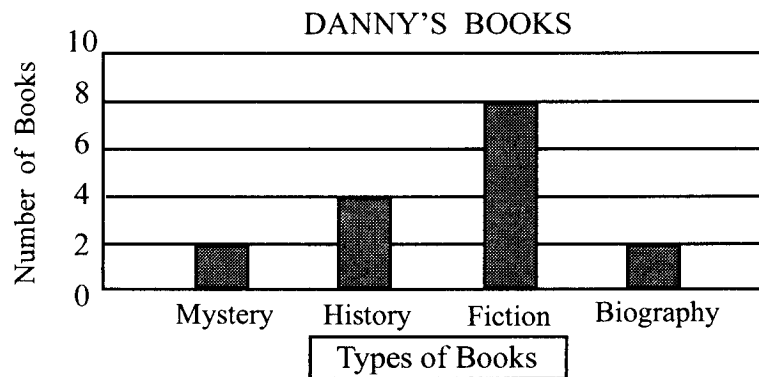
**BROWARD COUNTY COUNCIL  
OF  
TEACHERS OF MATHEMATICS  
(BCCTM)**

**Annual Contest  
2007**

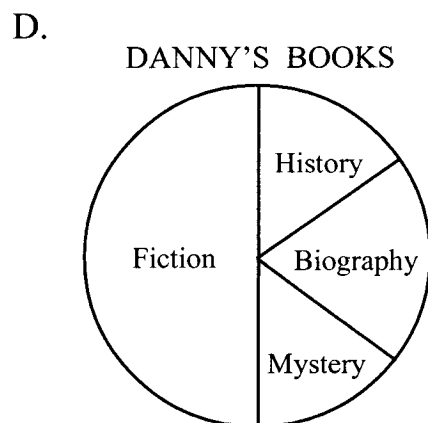
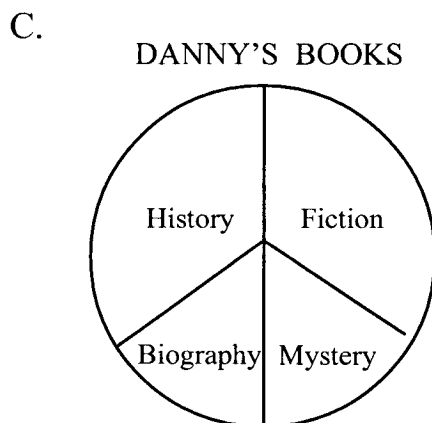
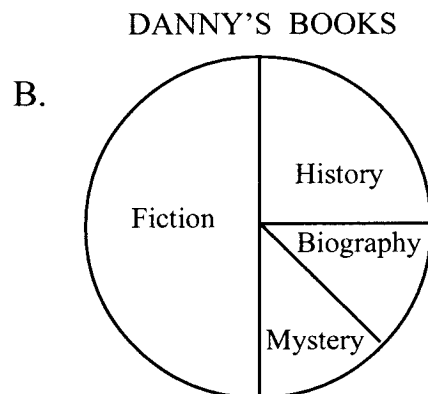
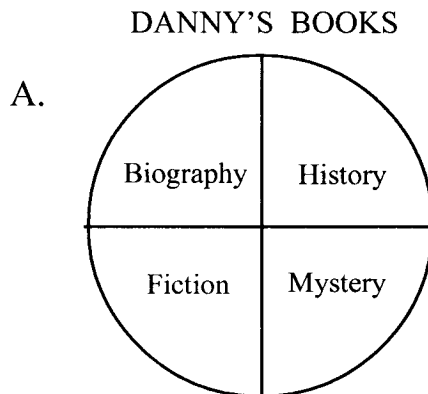
**Grade 5**

**BCCTM—GRADE 5**  
2007 INDIVIDUAL COMPETITION

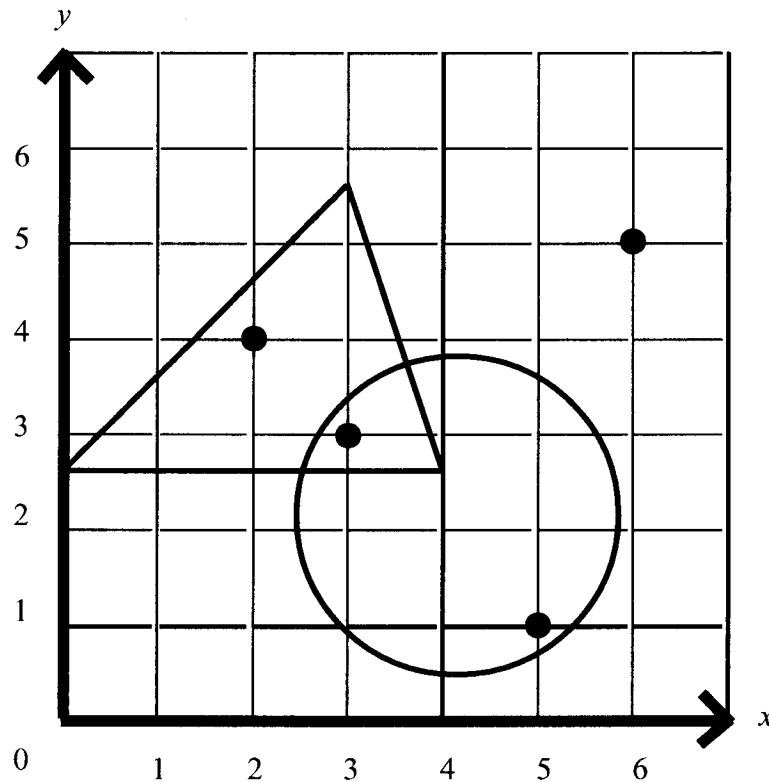
1. Danny has 16 books in his book case. The bar graph shows the number of each type of book.



Which graph best represents this information?



2. What are the coordinates of the point that is inside the triangle and outside the circle?



- A. (5, 1)                      B. (3, 3)  
C. (6, 5)                      D. (2, 4)
3. Mara rode in a marathon that was 265 kilometers long. How many meters long was this race?
- A. 2,650 m                      B. 2,650,000 m  
C. 26,500 m                      D. 265,000 m
4. National elections occur on the first Tuesday after the first Monday in November. What dates are possible for the elections?
- A. 1<sup>st</sup> through 7<sup>th</sup>                      B. 2<sup>nd</sup> through 8<sup>th</sup>  
C. 3<sup>rd</sup> through 9<sup>th</sup>                      D. 4<sup>th</sup> through 10<sup>th</sup>

5. Look at the number pattern below.

4, 7, 10, 13, 16 . . .

Which number sentence can be used to find  $p$ , the seventh number in the pattern?

A.  $p = (3 \times 7) + 1$

B.  $p = (3 + 4) \times 7$

C.  $p = 3 \times 7$

D.  $p = 3 + 16$

6. The cafeteria manager has  $3\frac{3}{4}$  pounds of cooked pork and  $5\frac{1}{8}$  pounds of cooked turkey to use as filling in enchiladas. There is enough meat to fill 70 enchiladas. Which number sentence can be used to find  $m$ , the total weight of the pork and the turkey?

A.  $m = 70 - 5\frac{1}{8} - 3\frac{3}{4}$

B.  $m = 5\frac{1}{8} + 3\frac{3}{4}$

C.  $m = 5\frac{1}{8} - 3\frac{3}{4}$

D.  $m = 70 - 3\frac{3}{4}$

7. Jose read 36-40 pages each day. Which could be the total number of days it took for him to read all 228 pages of his book?

A. 2 days

B. 4 days

C. 6 days

D. 8 days

8. Mr. Alright's truck travels an average of 18 miles per gallon of gas. The gas tank holds 24 gallons. Which is the best estimate of the total number of miles Mr. Alright's truck can travel on a full tank of gas?

A. 250 miles

B. 30 miles

C. 400 miles

D. 600 miles

9. Gloria bought  $3\frac{1}{2}$  yards of ribbon. She used  $\frac{5}{8}$  yard of the ribbon for her craft project and  $1\frac{7}{8}$  yards for a belt. What length of ribbon did she have left?

A. 1 yard

B.  $2\frac{7}{8}$  yards

C.  $1\frac{1}{2}$  yards

D.  $2\frac{1}{2}$  yards

10. Bryan's batting average for 2007 is 0.313. In 2006, his batting average was 0.278. How much greater is Bryan's batting average this season than last season?  
A. 0.35  
B. 0.65  
C. 0.035  
D. 0.165
11. An I-95 construction crew paved 1.2 miles of road on Monday, 2.03 miles on Tuesday, and 1.87 miles on Wednesday. What is the mean number of miles paved during these three days?  
A. 5.1 miles  
B. 1.87 miles  
C. 1.7 miles  
D. 1.2 miles
12. Judy determined that it would take ten days to count to one million if she counted all night without stopping. How many days would it take Judy to count to one trillion?  
A. 20  
B. 1,000  
C. 100,000  
D. 10,000,000
13. Ms. Newman has a triangular garden with a perimeter of 29.9 meters. If two sides are the same length and the third side is 19.1 meters, how long are the two sides each?  
A. 10.8 meters  
B. 9.52 meters  
C. 4.76 meters  
D. 5.4 meters
14. What is the value of the expression  $3(7 \times 8 - 4)$ ?  
A. 55  
B. 84  
C. 156  
D. 164
15. Lakesha has a cylindrical container filled with water. The container has a volume of 1.65 liters. What is this volume in milliliters?  
A. 16500 mL  
B. 1650 mL  
C. 165 mL  
D. 0.00165 mL

16. Mrs. Musicale tuned Peter's piano. She took 1 minute per key to check 88 keys. She took 2 more minutes per key to retune 14 keys. About how many hours in all did Mrs. Musicale take to tune Peter's piano?
- A. 4 hours  
B. 3 hours  
C. 2 hours  
D. 1 hour
17. Beth has a jar that holds one dime, two nickels and one quarter. She randomly removes three coins from the jar. Which combination is NOT a possible outcome?
- A. one dime, one nickel, and one quarter  
B. one quarter and two dimes  
C. one dime and two nickels  
D. two nickels and one quarter
18. Rosalie wants to distribute 80 fliers for the math fair. She has distributed 60 fliers so far. What percent of the total number of fliers has Rosalie distributed?
- A. 10%  
B. 25%  
C. 75%  
D. 80%
19. Ricardo recorded his coin tosses. He recorded whether the coin landed heads up or tails up. The results are shown in the table below.

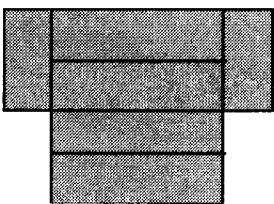
COIN TOSSES	
POSITION	NUMBER OF TIMES
Heads Up	
Tails Up	

What fraction of the coin tosses landed tails up?

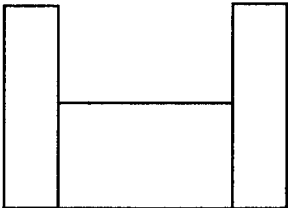
- A.  $\frac{1}{8}$   
B.  $\frac{2}{3}$   
C.  $\frac{2}{5}$   
D.  $\frac{3}{5}$

20. Jim has two horses, Bingo and Lightning. Lightning eats 5 kilograms of hay in 5 days. Bingo eats twice as much. How many kilograms of hay does it take to feed both horses for thirty days?
  - A. 5 kg
  - B. 15 kg
  - C. 30 kg
  - D. 90 kg
21. Rani has more tapes than magazines. He has fewer tapes than books. Which of the following lists these items from the greatest in number to the least in number?
  - A. Books, magazines, tapes
  - B. Books, tapes, magazines
  - C. Magazines, books, tapes
  - D. Tapes, magazines, books
22. Which piece of information is NOT needed to solve the problem below? (**You do not have to solve the problem.**) Juanita is planning to buy food for her two dogs. The food she buys must last for 4 weeks. Each dog eats 1 can of dog food and 3 dog biscuits every day. How many cans of food does Juanita need to buy?
  - A. Juanita has 2 dogs.
  - B. The food must last 4 weeks.
  - C. Each dog eats 1 can of dog food every day.
  - D. Each dog eats 3 biscuits everyday.
23. Ms. Pepto and 3 friends ate dinner at a restaurant. The bill was \$67. In addition, they left a tip of \$13. Approximately what percent of the total bill did they leave as a tip?
  - A. 10%
  - B. 15%
  - C. 20%
  - D. 25%

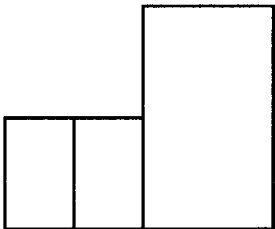
24. Which solid is represented by these top, front, and side views?



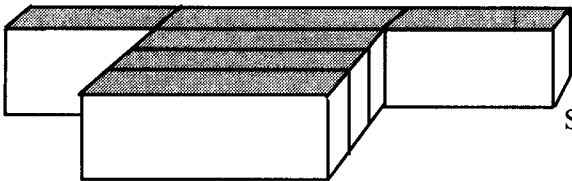
Top



Front



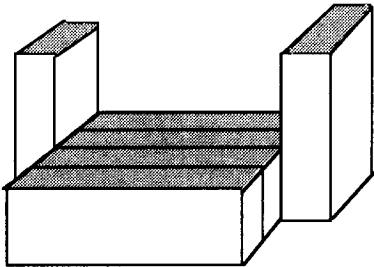
Side



Side

Front

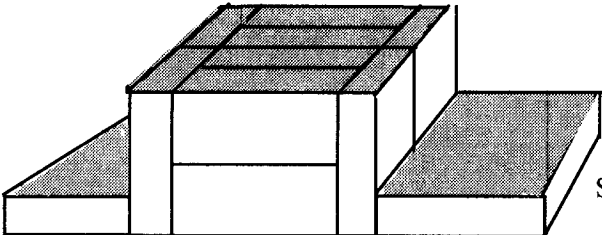
A.



Side

Front

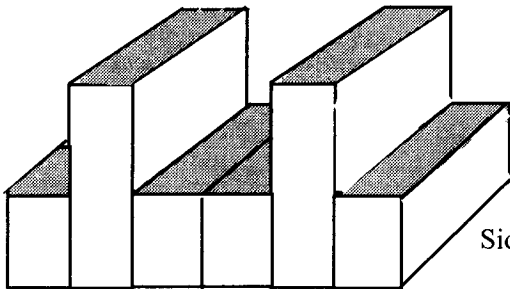
B.



Side

Front

C.



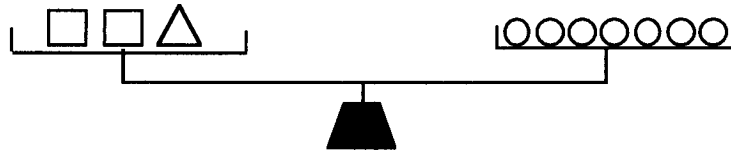
Side

Front

D.

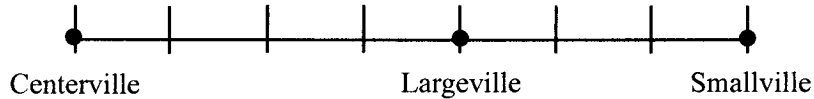


25. The objects on the scale below made it balance exactly. According to the scale, if  $\triangle$  balances 000, the  $\square$  balances which of the following?



- A. 0  
B. 00  
C. 000  
D. 0000

26. On the road show below, the distance from Centerville to Largeville is 60 miles. What is the distance from Centerville to Smallville?

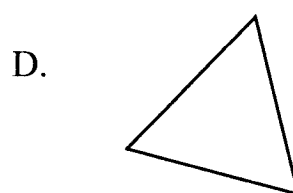
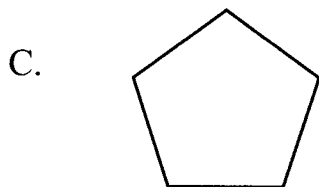
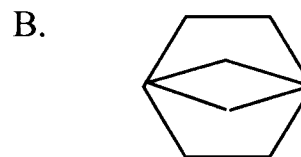


- A. 45 miles  
B. 75 miles  
C. 90 miles  
D. 105 miles

27. The area of a square checkerboard is 529 square cm. What is the perimeter of the checkerboard?

- A. 21 cm  
B. 23 cm  
C. 84 cm  
D. 92 cm

28. Which shape has only two lines of symmetry?

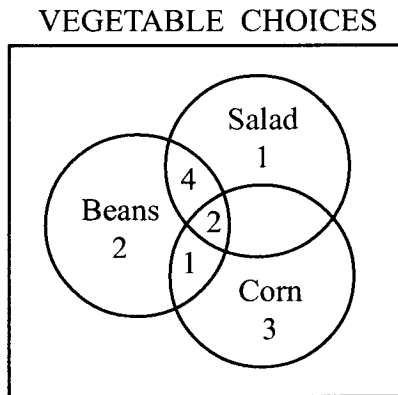


29. I multiplied my age by 4, added 20, divided by 2, and then subtracted twice my age. What number did I finally get?

- A. 0  
C. 10

- B. 5  
D. 20

30. Corliss surveyed the students at her lunch table about the vegetables they had chosen. The diagram shows the number of students who had beans, corn, and/or salad.



Which chart shows the number of students who had chosen each type of vegetable?

A.

Type of Vegetable	Number of Students
Beans	7
Corn	5
Salad	6

B.

Type of Vegetable	Number of Students
Beans	4
Corn	5
Salad	3

C.

Type of Vegetable	Number of Students
Beans	9
Corn	6
Salad	7

D.

Type of Vegetable	Number of Students
Beans	9
Corn	7
Salad	8