1. Of the following, which is greater than $\frac{1}{2}$?

Indicate ALL such fractions.

- 🗖 A. 2/5
- □ B. 4/7
- C. 4/9
- D. 5/11
- E. 6/13
- F. 8/15
- G. 9/17

2. If an object travels at five feet per second, how many feet does it travel in one hour?

- ° A. 30
- С В. 300
- ° C. 720
- ^O D. 1800
- C E. 18000

3. What is the average (arithmetic mean) of all the multiples of ten from 10 to 190 inclusive?

- C A. 90
- О _{В. 95}
- ° C. 100
- ^O D. 105
- C E. 110

4. A cubical block of metal weighs 6 pounds. How much will another cube of the same metal weigh if its sides are twice as long?

- ° A. 48
- О _{В. 32}
- ^O C. 24
- O D. 18
- ^C E. 12

5. In a class of 78 students 41 are taking French, 22 are taking German. Of the students taking French or German, 9 are taking both courses. How many students are not enrolled in either course?

° A. 6

- O B. 15
- ° _{C. 24}

D. 33
E. 54

6. A straight fence is to be constructed from posts 6 inches wide and separated by lengths of chain 5 feet long. If a certain fence begins and ends with a post, which of the following could be the length of the fence in feet? (12 inches = 1 foot).

Indicate ALL such answers.



9. Amy has to visit towns B and C in any order. The roads connecting these towns with her home are shown on the diagram. How many different routes can she take starting from A and returning to A, going through both B and C (but not more than once through each) and not travelling any road twice on the same trip?



10. In the figure above AD = 4, AB = 3 and CD = 9. What is the area of triangle AEC ?

В

D

° A. 18

С

- ° B. 13.5
- ° _{C.9}
- ° _{D. 4.5}
- O E.3

Answer Key

- 1. BFG
- 2. E
- 3. C
- 4. A
- 5. C
- 6. ABDE
- 7. A
- 8. C
- 9. B
- 10. D