1. Of the following, which is greater than $1 / 2$ ?

Indicate ALL such fractions.
$\square$ A. $2 / 5$
B. $4 / 7$
$\ulcorner$
C. $4 / 9$
$\Gamma$
D. $5 / 11$
$\square$
E. 6/13
$\square$
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
B. 300

0
C. 720

0
D. 1800

O E. 18000
3. What is the average (arithmetic mean) of all the multiples of ten from 10 to 190 inclusive?
A. 90

0
B. 95
C. 100

0
D. 105

0
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?
C A. 48
B. 32

0
C. 24

0
D. 18

O 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

0
B. 15

0
C. 24

```
D. 33
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```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.
A. 17
$\ulcorner$
B. 28
$\Gamma$
C. 35

Г
D. 39
$\ulcorner$
E. 50
7. $(\sqrt{ } 2-\sqrt{ } 3)^{2}=$

C A. $5-2 \sqrt{ } 6$
0
B. $5-\sqrt{ } 6$

O
C. $1-2 \sqrt{ } 6$

0
D. $1-\sqrt{ } 2$

0
E. 1
8. $230+230+230+230=$
A. 8120
B. 830

O
C. 232

0
D. 230

O E. 226

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?
A. 10
B. 8
C. 6
D. 4
O. 2

10. In the figure above $A D=4, A B=3$ and $C D=9$. What is the area of triangle $A E C$ ?
A. 18

0
B. 13.5
C. 9

0
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
