

## Difficult Problem Solving Questions

### *Median S*

Set  $S$  consists of the following unique integers:  $-2, 17, 3, n, 2, 15, -3,$  and  $-27$ ; which of the following could be the median of set  $S$ ?

- A) 1
- B) 9
- C) 14
- D) 17
- E) It Cannot Be Determined

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### *A Row of Seven*

A group of seven students is to be seated in a row of seven desks. In how many different ways can the group be seated if two of the preselected students must sit in an end seat (i.e., two students have been preselected to sit in either the first or the seventh seat)?

- A) 49
- B) 100
- C) 120
- D) 240
- E) 720

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### *Three Dice*

A fair sided die labeled 1 to 6 is tossed three times. What is the probability the sum of the 3 throws is 16?

- A)  $1/6$
- B)  $7/216$
- C)  $1/36$
- D)  $9/216$
- E)  $11/216$

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***Five Empty Chairs***

There are five empty chairs in a row. If six men and four women are waiting to be seated, what is the probability that the seats will be occupied by two men and three women?

- A)  $4/21$
- B)  $5/21$
- C)  $8/21$
- D)  $9/21$
- E)  $11/21$

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### *Coin Sum*

A coin has two sides. One side has the number 1 on it and the other side has the number 2 on it. If the coin is flipped three times what is the probability that the sum of the numbers on the landing side of the coin will be greater than 4?

- A)  $3/8$
- B)  $1/16$
- C)  $1/8$
- D)  $1/2$
- E)  $1/4$

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