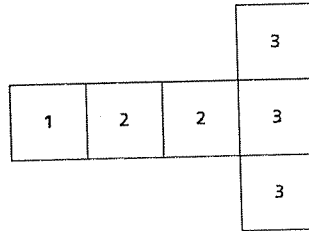


Use the diagram below to answer question 1.



1. Jerry played a game using a 6-sided number cube. The net of the cube is shown. On the number cube, one side was labeled with the number 1, two sides were labeled with the number 2, and three sides were labeled with the number 3. What was the expected value of 1 roll of the number cube?

- A.  $\frac{1}{6}$
- B. 2
- C. 3
- D.  $\frac{7}{3}$

525264

Please write your response in the space provided.

1. Ms. Rodriguez sets her calculator to randomly select an integer between 1 and 1,000 (inclusive).

- Part A** What is the theoretical probability the calculator will select an even number?
- Part B** What is the theoretical probability the calculator will select a number that is a multiple of seven? Show or explain your work.
- Part C** What is the theoretical probability the calculator will select a number that is even and a multiple of seven? Show or explain your work.

509290

# Word OF THE DAY

Definitions provided by Merriam-Webster

September 2, 2008

**antipathy** · \an-'ti-pə-thē\ · (noun)

DEFINITION  
PROVIDED BY



despite (prep) =

## EXAMPLE FROM THE NEW YORK TIMES

The word antipathy has appeared in 89 Times articles over the past year, most recently in "West Baffled by 2 Heads for Russian Government" on August 21, 2008.

...When Nicolas Sarkozy, the French president, rushed to Moscow earlier this month to mediate the crisis over Georgia, he found the new Russian president, Dmitri A. Medvedev, to be calm, even sanguine about prospects for a solution.

But the tone was wildly different when Mr. Sarkozy heard from Vladimir V. Putin, the president-turned-prime minister. According to a private report that Mr. Sarkozy later delivered to President Bush, Mr. Putin was virulent in denouncing Georgian actions as atrocities, and he expressed such deep antipathy toward Georgian leaders that it made the war seem personal...

## TEST PREP Question OF THE DAY

Questions provided by [Kaptest.com](http://Kaptest.com)

[BACK](#)  
[Word of](#)

Today's Test Prep Question of the Day is a sentence completion

DIRECTIONS: Select the lettered word or set of words that best completes the sentence.

[Click here](#) for strategies for answering this type of question.

**Pugilist Mike Tyson, the youngest heavyweight champion in history, showed a youthful ----- towards fighting, perhaps because he grew up in a place where such ----- was often required to make it through the day.**

- (A) proclivity . . pandemonium
- (B) inclination . . benevolence
- (C) aversion . . violence
- (D) antipathy . . anger
- (E) predisposition . . belligerence

PARTNER SITE

