

# Leap Frog Relay 6-8 – I – 2006

**No calculators allowed**

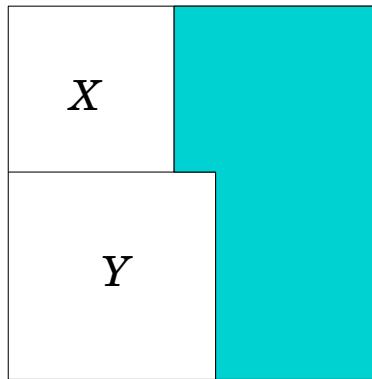
**Correct Answer = 4, Incorrect Answer = -1, Blank = 0**

**Please do not turn over until you are told to do so**

1. Today is Saturday. What day of the week was the day exactly 500 days ago?

- (a) Monday
- (b) Tuesday
- (c) Wednesday
- (d) Thursday
- (e) Friday

2. A large square contains squares  $X$  and  $Y$  as shown below. The area of square  $X$  is 16 square inches, the area of square  $Y$  is 25 square inches. How many square inches is the area of the shaded region?



- (a) 9
- (b) 18
- (c) 36
- (d) 40
- (e) 41

3. Of all Math Club members at CSU Fresno, 70% own a computer and 50% own a car. However, 10% of all Math Club members own neither a computer nor a car. What percent of all Math Club members own both a computer and a car?

- (a) 10%
- (b) 20%
- (c) 30%
- (d) 40%
- (e) 50%



7. At an elementary school the first class starts at 7:50 AM and the fourth class ends at 11:36 AM. There are 6 minutes between classes and each class is the same length. How many minutes are there in one class period?
- (a) 52 (b) 53  
(c) 54 (d) 55  
(e) 56
8. During a trip by car on a highway, Antonio passed the 152 mile marker at 9:20 AM and the 176 mile marker at 9:52 AM. His speed was constant for that part of the trip. At what time did he pass the 170 mile marker?
- (a) 9:38 AM (b) 9:40 AM  
(c) 9:42 AM (d) 9:44 AM  
(e) 9:46 AM
9. Andrea and Kim were playing Chinese Checkers. Andrea won 40% of the games. Kim won 18 games. There were no ties. How many more games did Kim win than Andrea?
- (a) 2 (b) 3  
(c) 4 (d) 5  
(e) 6
10. Jeremy is a 60% free throw shooter in basketball. He has a chance to throw 2 free throws. What is the probability that he makes at least one of the two throws?
- (a) 60% (b) 80%  
(c) 82% (d) 84%  
(e) 90%