

Leap Frog Relay 6-8 – I – 2006

No calculators allowed

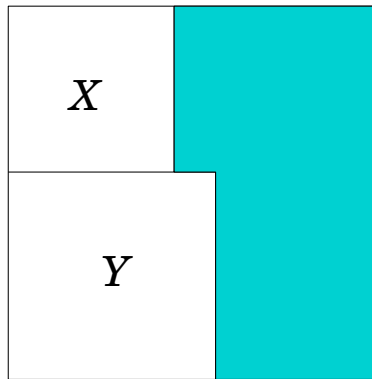
Correct Answer = 4, Incorrect Answer = -1, Blank = 0

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?

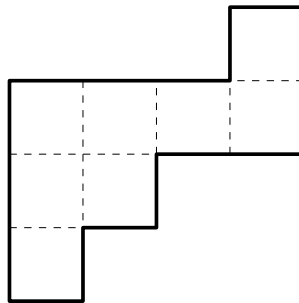


- (a) 9
- (b) 18
- (c) 36
- (d) 40
- (e) 41

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%

4. The cafeteria sells each orange at one price and each banana at another price. For 4 oranges and 2 bananas Yolanda pays \$2.70. For 3 bananas and 1 orange Soua pays \$2.05. Fernando buys 2 oranges and 2 bananas. How much does he have to pay?
- (a) \$1.75 (b) \$1.80
(c) \$1.85 (d) \$1.90
(e) \$1.95
5. A tractor has a 22 gallon gasoline tank. It runs out of gasoline when it is done plowing $\frac{3}{4}$ of a field. How many gallons of gasoline does the tractor need to plow the whole field?
- (a) $22\frac{1}{4}$ (b) 23
(c) $29\frac{1}{3}$ (d) $32\frac{2}{3}$
(e) $38\frac{1}{2}$
6. The figure shown consists of 8 congruent squares. The area of the figure is 72 square cm. What is the perimeter of the figure, in cm?



- (a) 8 (b) 16
(c) 24 (d) 32
(e) 48

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1. An average person has about one heartbeat per second. How long does it take for an average person to have 1 million heartbeats?
 - (a) about 2 hours
 - (b) about 2 days
 - (c) about 2 weeks
 - (d) about 2 months
 - (e) about 2 years
2. In a chess-tournament between Mighty Juniors and Clever Youngsters, the team of Mighty Juniors won 76% of the games. The Clever Youngsters won 6 games. There were no ties. How many games were won by the Mighty Juniors?
 - (a) 17
 - (b) 19
 - (c) 21
 - (d) 23
 - (e) 25
3. The sum of 9 consecutive integers is 153. What is the product of the smallest and the largest of these integers?
 - (a) 240
 - (b) 273
 - (c) 289
 - (d) 340
 - (e) 420
4. Jerry plans to roll a pair of dice. What is the probability of obtaining 6 as the product of the two numbers showing on the two dice?
 - (a) $\frac{1}{36}$
 - (b) $\frac{1}{6}$
 - (c) $\frac{1}{3}$
 - (d) $\frac{1}{9}$
 - (e) $\frac{1}{18}$

