

Select (E) NOTA if none of the above answers are correct. Good luck!

1. Chris, Eli, Pratik and Patrick all have pieces of candy. Chris has 10 pieces, Eli and Patrick have 8 pieces each and Pratik has 22 pieces. They want to add all of their candy together and split it evenly between them. If they do this, how many pieces will each of them get?
(A) 10 (B) 11 (C) 12 (D) 13 (E) NOTA
2. Yuan gives out red cards. He gives out 6 red cards on Monday, 7 on Tuesday, 3 on Wednesday, 14 on Thursday, and 10 on Friday. He gives no cards, however, on the weekends, because he needs a break. According to this schedule, how many red cards does Yuan give out in a single week (Monday to Sunday)?
(A) 20 (B) 40 (C) 60 (D) 80 (E) NOTA
3. What is the tenths digit in the result of 4.25×3.3 ?
(A) 0 (B) 2 (C) 4 (D) 5 (E) NOTA
4. What is the least common denominator for the two fractions $\frac{4}{5}$ and $\frac{1}{6}$?
(A) 5 (B) 6 (C) 30 (D) 60 (E) NOTA
5. Evaluate $\frac{1}{2} + \frac{1}{3} + \frac{1}{4}$.
(A) $\frac{5}{6}$ (B) $\frac{11}{12}$ (C) $\frac{12}{13}$ (D) $\frac{13}{12}$ (E) NOTA
6. Simplify the expression $(4.3 - 1.6) + (12.1 + 1.4) \times 1.5$ and round your answer to the nearest integer.
(A) 22 (B) 23 (C) 24 (D) 25 (E) NOTA
7. In the result of 2.505×4.65 , compute the value of the thousandths digit divided by the hundredths digit.
(A) 2 (B) 3 (C) 4 (D) 5 (E) NOTA
8. What is 70% of 130?
(A) 91 (B) 39 (C) 221 (D) 169 (E) NOTA
9. Jason has 540 pieces of chocolate. If he decides to give $\frac{1}{2}$ of his chocolate to Yuan and $\frac{1}{3}$ of the remaining pieces to Payal, how many pieces of chocolate will Jason have given away?
(A) 90 (B) 180 (C) 360 (D) 450 (E) NOTA
10. Evaluate $5 \times 9 - 6 \div 3 \times 2 + 4$.
(A) 14 (B) 19 (C) 48 (D) 94 (E) NOTA
11. Evaluate $7 \cdot (9 + ((10 - 3 \cdot 3) \cdot 3 + 12 \div 3) - 2)$.
(A) 14 (B) 24 (C) 98 (D) 168 (E) NOTA
12. Out of 300 people ordering lunch, half of them order a hamburger, one third of them order a hot dog and the rest order a salad. Of those who ordered a salad, 20% of them also ordered ice tea. How many people ordered a salad and ice tea?
(A) 10 (B) 50 (C) 100 (D) 150 (E) NOTA

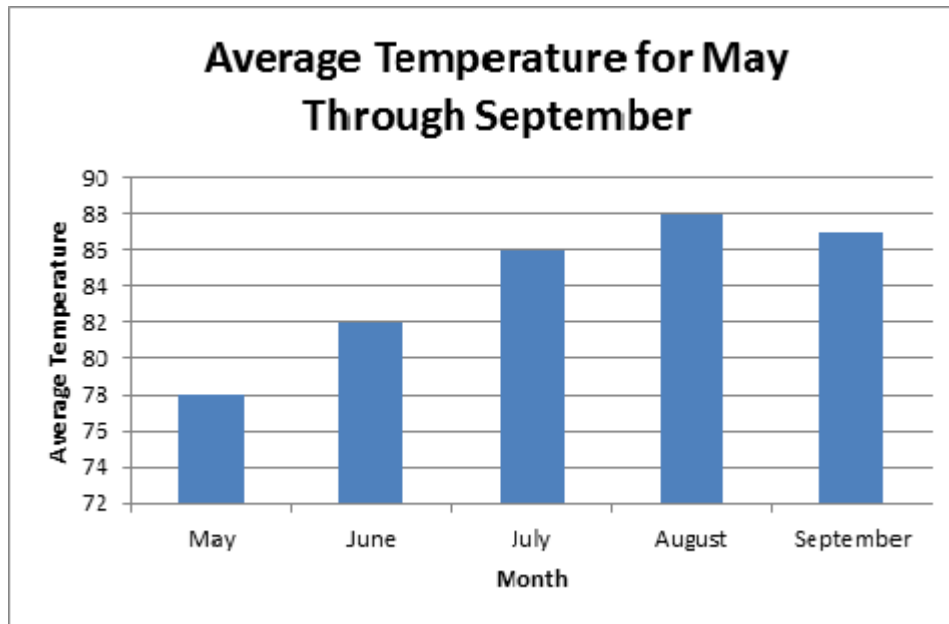
13. Jason has a certain number of packages of M&M's, each containing 25 M&M's, for a total of 400 M&M's. He eats 175 of these M&M's. How many packages of M&M's does Jason have left? Assume Jason eats one package at a time.
- (A) 7 (B) 8 (C) 9 (D) 10 (E) NOTA
14. A grocery store, on any given day, has 15 shoppers less than twice the number of shoppers the previous day. This pattern starts on a certain Monday, when the grocery store had 20 people. How many shoppers will the store have on Wednesday?
- (A) 20 (B) 35 (C) 60 (D) 80 (E) NOTA
15. What percent of 60 is 96?
- (A) 0.625 (B) 1.6 (C) 62.5 (D) 160 (E) NOTA
16. A full bag of Skittles holds 35 Skittles and a basket holds 20 full bags of Skittles. What is the maximum number of Skittles that can be put into two baskets?
- (A) 350 (B) 700 (C) 1050 (D) 1400 (E) NOTA
17. Solve the equation $2x + 5 = 7$ for x .
- (A) 1 (B) 2 (C) 3 (D) 4 (E) NOTA
18. In a standard playing card deck, there are 4 copies of each number 2 – 9 inclusively, 4 jacks, 4 queens, 4 kings and 4 aces (52 cards in total). Linda draws one card from the top of the deck. What is the probability that the card is a 2?
- (A) $\frac{1}{13}$ (B) $\frac{5}{13}$ (C) $\frac{1}{2}$ (D) $\frac{12}{13}$ (E) NOTA

Use the following information for questions 19–21.

Two players are playing a game in which they each roll a fair die 4 times and add up their roll results to get a point total. If the totals are equal, the game is considered a draw. The only way that a player can win is if they have a higher point total than the other player.

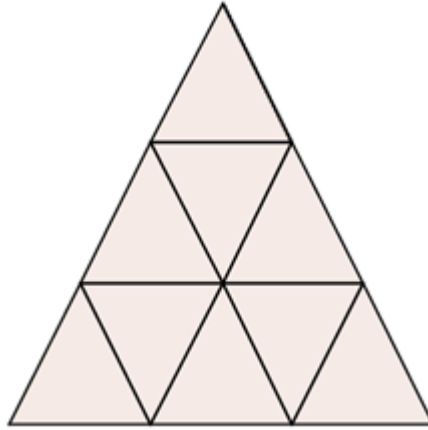
19. What is the highest possible point total for either player at the end of this game?
- (A) 12 (B) 24 (C) 36 (D) 48 (E) NOTA
20. After 4 rolls, the first player has a total of 19 points. The second player has 15 points after 3 rolls. What is the probability that the second player will beat the first player at this game?
- (A) $\frac{1}{6}$ (B) $\frac{1}{2}$ (C) $\frac{1}{3}$ (D) $\frac{2}{3}$ (E) NOTA
21. Using the information from question 20, what is the probability that the second player will lose the game?
- (A) $\frac{1}{6}$ (B) $\frac{1}{2}$ (C) $\frac{1}{3}$ (D) $\frac{2}{3}$ (E) NOTA
22. A survey of 30 kids was taken to find out what candy the kids liked the most. 6 kids said they liked Starbursts the most, 8 of the kids said they liked Skittles the most, 20% of the kids said they liked Hershey's the most and $\frac{1}{3}$ of the kids said they liked M&M's the most. According to this survey, which candy has the greatest amount of kids who like it the most?
- (A) Starburst (B) Skittles (C) Hershey's (D) M&M's (E) NOTA


23. Jason is playing a game in which he draws a single ball at random from a cup which contains 2 blue balls, 1 red ball and 9 white balls. Jason loses the game only if he draws a white ball. What is the probability that Jason loses the game?
- (A) .25 (B) .5 (C) .75 (D) 1 (E) NOTA
24. Daniel rolls a die and gets a value of 2 – this is his initial value. For each roll after, if he gets an odd number, he doubles the previous value. If he rolls an even number, he adds 1 to the previous value. He then keeps applying these two rules to continually change his value. After he rolls the die a total of eight times, he stops – the numbers he rolled were 1, 4, 3, 4, 2, 5 and a 6. What value did Daniel end up with?
- (A) 21 (B) 23 (C) 25 (D) 27 (E) NOTA
25. The graph below shows the average temperatures for the months May through September. What is the difference between the highest average temperature and the lowest average temperature for the months May-September?



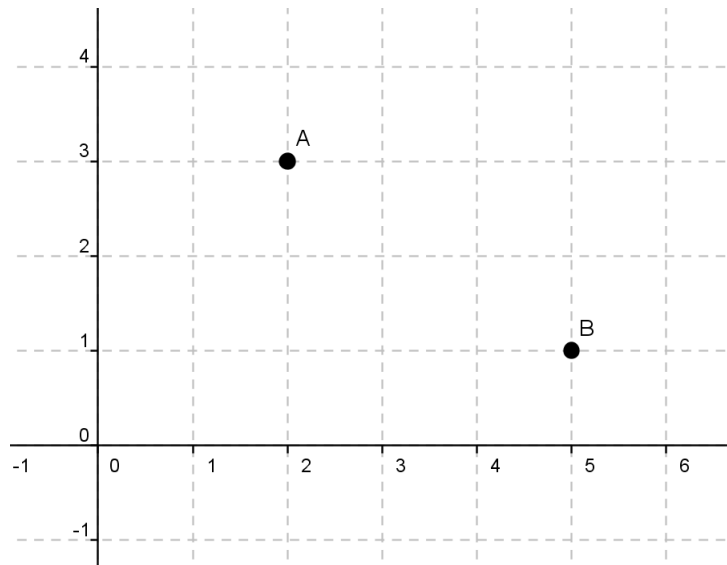
- (A) 4 (B) 6 (C) 8 (D) 9 (E) NOTA
26. A teacher wants to take his 28 students to a theme park for a class trip. To be able to go, he must first buy tickets for the class. The tickets for teachers cost \$9 and the tickets for students cost \$7.50. How much will the teacher have to pay for tickets for all his students and himself?
- (A) \$199 (B) \$203 (C) \$210 (D) \$219 (E) NOTA
27. A brick is found to weigh 6 lbs. If 3 bricks equal the weight of 2 bags of sand, how many bags of sand weigh 36 lbs?
- (A) 4 (B) 6 (C) 9 (D) 12 (E) NOTA

Consider the following diagram for problems 28–29.



Each of the  triangles has an area of 9.

28. How many total triangles can be found in this figure?
 (A) 9 (B) 10 (C) 12 (D) 13 (E) NOTA
29. What is the total area of the figure?
 (A) 81 (B) 90 (C) 108 (D) 117 (E) NOTA
30. Part of the coordinate plane is shown below.



- Points $A(m, n)$ and $B(p, q)$ are plotted as shown. Compute the sum $m + n + p + q$.
 (A) 10 (B) 11 (C) 12 (D) 13 (E) NOTA