Directions: Each of the 30 multiple-choice questions is followed by five possible answer choices. Choices A through D will provide answers, while Choice E is for none of the above. Scoring will be as follows: 5 points for a correct answer, 0 for a wrong answer, and 1 for a blank answer (for a maximum possible score of 150). Figures are not necessarily drawn to scale. Time Limit : 60 minutes. Calculators are not permitted.

1. Buzz Lightyear can fly at a speed of  mph, which is equivalent to

**A) 21 mph B) 11 mph C) 5 mph D) 2 mph E) NOTA**

2. Buzz Lightyear has landed on the point (-2, 6) on a coordinate plane. The point (-2, 6) is in

**A) Quadrant 1 B) Quadrant 2 C) Quadrant 3 D) Quadrant 4 E) NOTA**

3. Wheezy will sing for you if you can guess his favorite two-digit number correctly. It is the smallest of the four consecutive even numbers that add up to 84. What is his favorite number?

**A) 32 B) 24 C) 22 D) 20 E) NOTA**

4. Given that each of the character’s actual height in the movie is irrelevant to the question, Mr. Potato Head is 8.710 feet tall, Woody is 2.72 feet tall, Slinky Dog is  feet tall, and Rex is  feet tall. Put the characters in the order from the tallest to the shortest.

**A) Mr. Potato Head, Slinky Dog, Rex, Woody B) Mr. Potato Head, Slinky Dog, Woody, Rex**

**C) Woody, Rex, Slinky Dog, Mr. Potato Head D) Rex, Woody, Mr. Potato Head, Slinky Dog**

**E) NOTA**

5. Buzz and Woody have started a friendly race. Buzz runs at a speed of 6 mph, while Woody runs at a speed of 4 mph. It is said that they started the race at the same time, side by side. If they are taking the same route and are both running at a constant speed, how many minutes would have passed until Buzz is exactly 28 miles ahead of Woody?

**A) 1280 B) 840 C) 42 D) 14 E) NOTA**

6. Andy, Molly, and Ms. Davis are at Pizza Planet. They ordered two medium cheese pizzas which are each cut into eight equal slices. After they have filled their belly up with the pizzas, there were five slices of pizza left. If Andy ate twice as many slices of pizza as Molly and Ms. Davis ate one more slice than Andy, how many slices have each of them eaten? (Answers are in the following order: Andy, Molly, Ms. Davis)

**A) 6, 3, 7 B) 5, 2, 4 C) 4, 2, 5 D) 3, 2, 6 E) NOTA**

7. The gross revenue of Toy Story 1 was three hundred sixty-one million, nine hundred fifty-eight thousand, seven hundred thirty-six dollars. The gross avenue of Toy Story 2 was four hundred eighty-five million, fifteen thousand, one hundred seventy-nine dollars. How much more money did Toy Story 2 make than Toy Story 1?

**A) $123,191,443 B) $123,056,443 C) $113,191,443 D)$113,056,443 E) NOTA**

8. Poor Barbie is standing in quicksand. She sinks inches every 3 hours. How many inches has she sunk after a full day? (Note: no other factors influence the speed of which Barbie sinks)

**A) 126 B)  C)  D) 42 E) NOTA**

9. Slinky Dog’s metal coil allows him to stretch his body. The original length of his body is 5.8 inches. The length of his fully stretched body is 122% of the original length of his body. How many more inches does Slinky Dog’s metal coil allow him to be?

**A) 12.876 B) 7.076 C) 1.276 D) 0.7076 E) NOTA**

10. Ken likes to flaunt his large collection of clothes. For you, the special audience, Ken has picked out 3 pairs of shoes, 6 pairs of pants, 7 shirts, and 4 hats. Ken does not want to show you the same exact outfit more than once. How many different outfits can he put on if Ken must wear one pair of shoes, one pair of pants, one shirt, and one hat?

**A) 672 B) 56 C) 46 D) 20 E) NOTA**

11. At the beginning of Toy Story II, Buster had set a record of 13.5 seconds in finding Woody. But Buster, after some training, has set a better record, represented by the equation  where = the new record in seconds. What is the value of ?

**A)  B)  C)  D)  E) NOTA**

12. Six toys have jumped out from the window. Aside from the first toy that jumped out, which hit the grass, the rest of toys have landed on top of one another. Woody jumped out sometime after Buzz. Mrs. Potato Head jumped out sometime after Rex. Mr. Potato Head jumped sometime before Woody but after Mrs. Potato Head had already jumped out. Buzz jumped out sometime after Rex. If Hamm jumped out sometime before Buzz, and there are two toys between Mr. Potato Head and Mrs. Potato Head, what is the correct order that the toys had jumped out, from first to last?

**A) Rex, Hamm, Mrs. Potato Head, Buzz, Woody, Mr. Potato Head**

**B) Hamm, Rex, Mrs. Potato Head, Buzz, Mr. Potato Head, Woody**

**C) Rex, Mrs. Potato Head, Hamm, Buzz, Mr. Potato Head, Woody**

**D) Rex, Buzz, Mrs. Potato Head, Mr. Potato Head, Woody, Hamm**

**E) NOTA**

13. Andy’s mother, Ms. Davis, put some coins into Hamm by an accident, thinking that it was her piggy bank. She put 22 coins in, consisting of quarters, dimes, and nickels, which add up to $2.20. If there are three times as many nickels as quarters, and one-half as many dimes as nickels, how many coins of each kind are there? (Answers are in this order: quarters, dimes, nickels)

**A) 8, 12, 24 B) 6, 9, 18 C) 4, 6, 12 D) 2, 3, 6 E) NOTA**

14. Jessie is thinking of a number. If the number satisfies the inequality , which of the following cannot be the number that Jessie is thinking of?

**A)  B)  C)  D)  E) NOTA**

15. Woody is trying to tell Buzz that eighty-five percent of the toys have escaped Sunnyside Daycare Center. But Buzz is unable to understand Woody because he can only comprehend fractions in simplest form. Express eighty-five percent as a fraction in simplest form to help them out.

**A)  B)  C)  D)  E) NOTA**

16. The Cymbal-banging monkey bangs its cymbals at these numbers, 2, 3, 5, 9, 17, 33, 65. What is the next number in this pattern at which the monkey will bang its cymbals?

**A) 129 B) 119 C) 109 D) 99 E) NOTA**

For questions 17-19, use the figure provided for each question.

17.

The area of the two rectangles combined is equivalent to the value of in this equation, . What is the area? (round to the nearest hundredth)

**A) 9.17 B) 9.16 C) .109 D) .11 E) NOTA**

18.

Find the circumference of the smaller circle if the area of it is 16

**A) 32π B) 16π C) 8π D) 2π E) NOTA**

19.

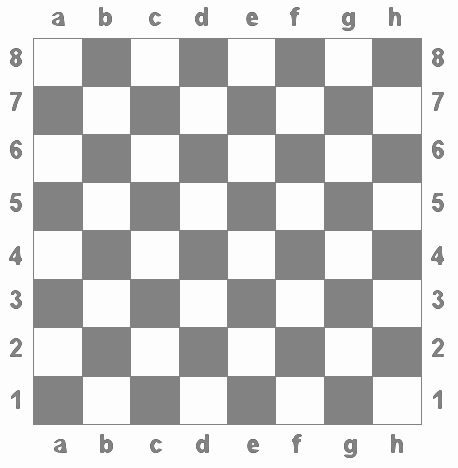
Find the area of the trapezoid (arrow), in square inches, if the height of it is the smallest prime number and the length of the longer base is one less than twice the length of the other base. The shorter base is the greatest common factor of 25, 35, 60. (Note: units are all in inches)

**A) 28 B) 14 C) 11 D) 7 E) NOTA**

20. RC is going at a speed of mph, where . Find 

**A) 12 B) 8 C) 4 D) 3 E) NOTA**

For questions 21-22, use the figure provided below.



(?, ?)

(a,1)

21. Sarge is standing on the chess board. Name the point that Sarge is standing on, indicated by (?, ?)

**A) (4, e) B) (e, 4) C) (5, e) D) (e, 5) E) NOTA**

22. One of the toy soldiers spots Sarge on the chess board, so the toy soldier jumps over to the point (b, 1). He starts walking but stops at the point (f, 6). Find the slope of his short walk.

**A)  B)  C)  D)  E) NOTA**

23. Mr. Potato Head, Mrs. Potato Head, and Mrs. Potato Head’s missing eye are the three vertices of a right triangle. Mr. Potato Head is 4 feet away from Mrs. Potato Head while Mrs. Potato Head is 7 feet away from her missing eye. Mrs. Potato Head is farther away from her missing eye than Mr. Potato Head is from the eye. Find the exact distance between Mr. Potato Head and the eye in feet.

**A)  B)  C)  D) 3 E) NOTA**

24. Oh no! Sid is on the move again, trying to destroy and torture toys. In order to prevent the toys from being tortured, you, as the kind-hearted toy savior, must correctly identify how many of the following are true statements.

I.  is an example of associative property

II.  is an example of commutative property

III.  is an example of commutative property

IV.  is an example of associative property

**A) 4 B) 3 C) 2 D) 1 E) NOTA**

25. Bookworm will hand you the Buzz Lightyear instruction manual if you can do the following. Simplify 

**A)  B)  C)  D)  E) NOTA**

26. According to Book Worm, 4! is equivalent to (4)(3)(2)(1). Using this information, find 

**A) 35 B) 24 C)  D)  E) NOTA**

27. There are  number of toy soldiers, where  can be found using this equation. 

Find , given that:

A = number of sides a hexagon has

B= greatest common factor of 48, 60, 84

C= least common multiple of 10, 14, 18

**A)  B) 57 C) 33 D) 12 E) NOTA**

28. Out of the MAƟ kids, 27 of them like Woody while 32 of them like Jessie, and 8 of them like Stinky Pete. Amanda, however, likes both Jessie and Stinky Pete but not Woody, while Bailey likes all three characters. Given that Amanda and Bailey are in MAƟ and that none of the other MAƟ kids like more than one character, find how many of the MAƟ kids like Jessie or Woody but not Stinky Pete.

**A) 67 B) 64 C) 58 D) 56 E) NOTA**

29. Each of the three Squeeze Toy Aliens (“You have saved our lives. We are eternally grateful”) has 3 perfectly circular eyes. Given that all of the three aliens’ eyes are of the same size and that the radius of one eye is inches, where = ninth smallest prime number, find the total circumference of one alien’s 3 eyes.

**A)  B)  C)  D)  E) NOTA**

30. All three aliens’ circular eyes magically grew larger by the same amount. Their eyes now have the radius of inches. The iris (colored part) of an alien’s eye has a radius of inches. What is the area of the sclera (white part) of an eye in inches?

**A)  B)  C)  D)  E) NOTA**