

1. (2 points) Florida State's quarterback, EJ Manuel, has a completion percentage of 68.7%. Assuming he has attempted 2000 passes, how many were completed?
2. (2 points) If Matthew walks at a constant rate of 2 miles per hour, then how many hours will it take for him to walk 11 miles?
3. (2 points) Simplify $10[4 + 6(2 \times 3 - 9) + 6 \times 8] - 32$.
4. (2 points) Rashad Greene has returned 5 punts this year: a 60 yard return, a 23 yard return, a 75 yard return, a 47 yard return, and a 35 yard return. What is the average of his punt returns?
5. (3 points) Lionel Messi has scored 100 goals this season. Cristiano Ronaldo has scored 50. What percent of Cristiano Ronaldo's goals does Lionel Messi have?
6. (3 points) What is the mean plus the median of the following data set: (5, 7, 40, 44, 13, 21, 45)
7. (3 points) Let

A = the remainder when 78774 is divided by 3.

B = the remainder when 77777 is divided by 8.

Find $A + B$.

8. (3 points) Batman arrived at the crime scene at 9:30 p.m. After seeing the Bat Signal, it took him 45 minutes to suit up, 5 minutes to find his keys, and 25 minutes to drive to the scene. When did he see the Bat Signal?
9. (4 points) The Incredible Hulk and Green Lantern are running late to a meeting with Siddarthman. The Incredible Hulk runs at 97 mph, Green Lantern runs at 193 mph. Green Lantern is 1351 miles away. Incredible Hulk is 582 miles away. Who gets to the meeting first, and by how many **seconds** does he win?
10. (4 points) What is the total surface area of a cube with side length 4 inches?
11. (4 points) What is the area of a circle with a diameter of 6 units? Leave your answer in terms of π .
12. (4 points) How many different ways can you arrange "ALEX"?
13. (5 points) Rickards has a lot of pizza boxes left from lunch. Stephen is stacking the boxes in the shape of a pyramid so there's 50 on the bottom row, 49 on the second to last, 48 on the third to last, 2 on the second row, and 1 on the top row. How many pizza boxes did Stephen use?
14. (5 points) In a set of 4 numbers, it is known that the mean is 5, and that 3 is both the mode and the smallest number. If the range is 7, what is the median?

15. (5 points) Let

A = The number of sides on a trapezoid

B = The amount paid by your mom in 3 months if she purchases a \$400 annual pass to Disney World, and pays for it with equal payments each month.

C = The number of degrees in an angle of an equilateral triangle

D = The ratio of a circle's circumference to its diameter.

Find $A + B + C + D$