Q1. The profit gnerated by company ABC is divided between its two founders Jack and Mark in a 4:3 ratio respectively.

Column 1	Column 2
Jack's share when the profit generated by company ABC is $ 8000	$5000

- What is the correct answer?
- Quantity in column 1 is higher
- Quantity in column 2 is higher
- The data provided isn't enough to determine the answer
- Both the quantities given are equal

Q2. Assume that y is greater than 3.

Quantity 1: (4y+2)/5

Quantity 2: Y

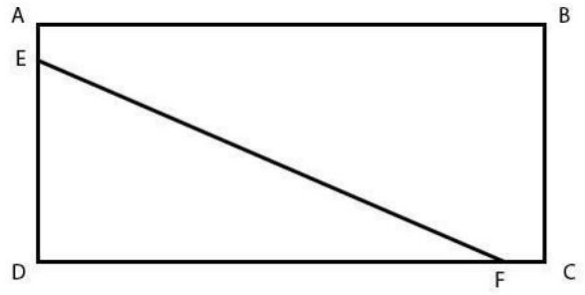
What is the correct answer?

- Quantity in column 1 is higher
- Quantity in column 2 is higher
- The data provided isn't enough to determine the answer
- Both the quantities given are equal

Q3. If 8x+64 = 8-6x, what is the value of x?

- -4
- -56
- 12
- 7

Q4: In the rectangle above, AB = x feet, BC = y feet, and AE = FC = 2 feet. What is the area of triangle DEF, in square feet?



- xy − 2x − 2y + 4
- xy − 2x − 2y − 4
- xy/2− x − y + 2
- xy/2−x−y-2
- xy/2+2

Q5. There is a glass jar containing 60 jelly beans. Out of these 60 jelly beans, 22 are black, 18 are blue, 11 are orange, 5 are maroon and 4 are violet. Assume that a single jelly bean has to be chosen at random. Then what is the probability that the jelly bean will be neither maroon nor violet?

- 0.09
- 0.15
- 0.54
- 0.85
- 0.91

Q6. Which two of the following numbers have a product that is between –1 and 0?

- -20
- -10
- 2^-4
- 3^-2

Q7. The average of 10 numbers is 7. Which of the following statements is true? Indicate all true statements.

- The average increases by 1 if each number increases by 1
- The average becomes 3 times, if each number becomes three times
- If the sum of the numbers increases by 7, the average increases by 1
- If seven numbers increase by 3 each and three numbers decrease by 7 each, the average remains the same
- The sum of the numbers is 70

Q8. Working alone at its constant rate, machine A produces k liters of a chemical in 10 minutes. Working alone at its constant rate, machine B produces k liters of the chemical in 15 minutes. How many minutes does it take machines A and B, working simultaneously at their respective constant rates, to produce k liters of the chemical?