Step 1 of 3

At x = 200, the retailer knows that the manimum and maximum values of the final customer demand are 200 – 75=125 and 200 + 75 = 275,Respectively. Therefore , the correct answer is (b) Final customer demand must be a value between (200-75) and (200+75).

Explanation:

3. The retailer knows that x, which is the observed unit demands, is equal to 200. Using the formula D=x +y, where D is the final customer demand, the retailer knows that the final customer demand must be a value between (200-75) and (200+75), which is (125) and (275), respectively. Therefore, the correct answer is (b). **Step 2 of 3**

4. If the retailer reports X=200 to the supplier, the supplier knows that the minimum and maximum values of the final customer demand are 200 - 75 = 125 and 200 + 75 = 275, respectively. Therefore, the correct answer is (a) Final customer demand must be some value between (200-75) and (200+75).

Explanation:

4. If the retailer reports X = 200, then the supplier knows that the final customer demand must be some value between (200-75) and (200+75), which is (125) and (275), respectively. Therefore, the correct answer is (a).

Step 3 of 3

5. In the equation a + b = c, we are given the values of two variables, and we need to find the value of the third variable.
a) a=100, b=2000, c=2100 (100 + 2000 = 2100)
b) a=120, b=3600, c=3720 (120 + 3600 = 3720)
c) a=100, b=2000, c=3000 (100 + 2000 = 3000)
Therefore, the correct answer is (c) a=100, b=2000, c=300

Explanation:

5. The total demand, D, is given by the formula D = a + b + c, and we know that D must be between 100 and 400. For option (a), D = 100 + 2000 + 2000 = 4100, which is outside the range. For option (b), D = 120 + 3600 + 2400 = 6120, which is also outside the range. However, for option (c), D = 100 + 2000 + 4000 = 6100, which is within the range. Therefore, the correct answer is (c)

Final solution

For question 3, the correct answer is (b) Final customer demand must be a value between (200-75) and (200+75).
For question 4, the correct answer is (a) Final customer demand must be some value between (200-75) and (200+75).
For question 5, the correct answer is (c) a=100, b=2000, c=4000.