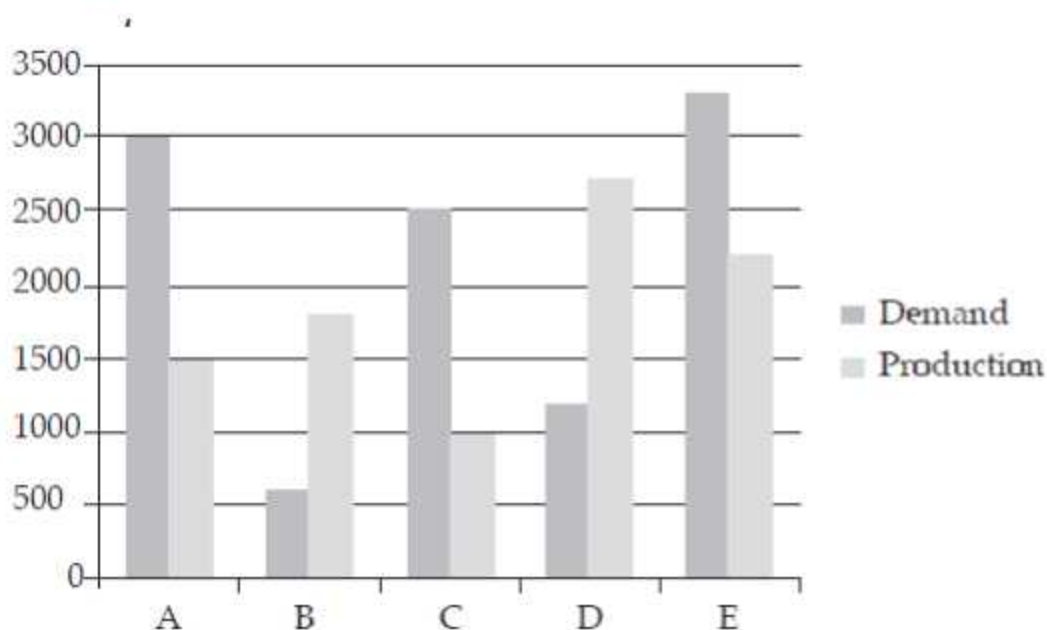The following chart represents Demand and Production for 5 companies ABCDE. On the basis of the given answer the questions.

1. If company A desires to meet the demand by purchasing surplus production of company, then the most suitable company is
a. C
b. D
c. E
d. B

Ans: D

Difference between demand and production of company
A = 3000 − 1500 = 1500
Difference between production and demand of company
D = 2700 − 1200 = 1500

2. If x% of demand for company C equals demand for company B, then x equals.
a. 24
b. 20
c. 60
d. 4 →a

Ans:

Given x% of demand for company C = Demand for company B

$$\Rightarrow \frac{2500 \times x}{100} = 600$$

$$\Rightarrow 25x = 600$$

$$\Rightarrow x = \frac{600}{25} = 24$$

3. If the production of company D is h times of the production of company A. Then h equals
   a. 1.5
   b. 2.5
   c. 1.2
   d. 1.8

Ans: D

Production of company D = 2700
Production of company A = 1500

$$h = \frac{\text{Production of company D}}{\text{Product of company A}}$$

$$= \frac{2700}{1500} = \frac{9}{5} = 1.8$$

4. The difference between average demand and average production of the five companies taken together is
   a. 400
   b. 280
   c. 130
   d. 620

   Ans : B

Total production of the five companies
$$= 1500 + 1800 + 1000 + 2700 + 2200 = 9200$$
Total demand of the five companies
$$= 3000 + 600 + 2500 + 1200 + 3300 = 10600$$
Required difference
$$= \frac{1}{5}(10600 - 9200)$$
$$= \frac{1}{5} \times 1400 = 280$$

5. The ratio of the number of companies having more demand to those having more production than production than demand is
   a. 4 : 1
   b. 2 : 2
   c. 3 : 2
   d. 2 : 3

   Ans: C

   Number of companies having more demand than production = 3

   Number of companies having more production than demand = 2

   Required ratio = 3 : 2