Bipin Nambiar
(SBI PO 2018)

Shiraz Khan
(SBI Clerk 2018)

Kuldeep Yadav
(SBI PO 2018)

Rajat Saxena
(IBPS Clerk 2018)

Anupam Tyagi
(IBPS PO 2018)

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# DI Pie Chart Questions for SBI Clerk Mains, IBPS Clerk Mains, RBI Assistant Mains, LIC AAO, SBI PO Pre, IBPS PO Pre and RRB Scale I Pre Exams.

## DI Pie Chart No 53

**Directions: Study the following pie chart carefully and answer the questions given beside.**

The pie chart shows the percentage of the number of calculators manufactured by Casio on five different days of a week .

The total number of calculators manufactured by Casio on Wednesday is 1680.

Note: Casio is manufacturing two variants of calculators - Desktop calculators and Portable calculators.

The total number of calculators (manufactured in a day) = Number of desktop calculators (manufactured in a day) + number of portable calculators (manufactured in a day)

Percentage of number of calculators manufactured



1. **Find the average of the number of calculators manufactured by Casio on Monday, Wednesday and Thursday together?**

A. 1370          B. 1470          C. 1540          D. 1610          E. 1680

2. **If the ratio of the number of Desktop calculators to the number of Portable calculators manufactured on Friday is 6 : 5, respectively then the number of Portable calculators manufactured on Friday is what percentage of the number of calculators manufactured on Tuesday?**

A. 20%          B. 33.33%          C. 40%          D. 50%          E. 66.67%

3. The ratio of the number of Desktop calculators to the number of Portable calculators manufactured on Tuesday and the ratio of the selling price of Desktop calculator to the price of Portable calculators on Tuesday is same i.e. 3 : 2. If the revenue earned by selling all the calculators manufactured on Tuesday is Rs. 109200, then find the selling price of each Portable calculator.
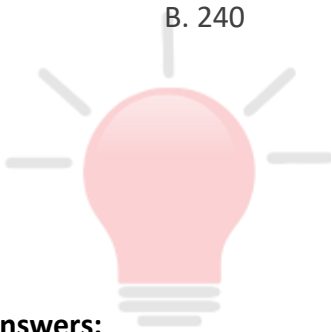
A. Rs. 100          B. Rs. 80          C. Rs. 60          D. Rs. 40          E. Rs. 120

4. Find the ratio of number of calculators manufactured on Monday to the number of calculators manufactured on Wednesday.

A. 1 : 2          B. 2 : 3          C. 3 : 4          D. 4 : 5          E. 5 : 6

5. What will be the difference between the average of number of calculators manufactured on Monday and Wednesday together and the average of number of calculators manufactured on Tuesday and Thursday together?

A. 210          B. 240          C. 270          D. 310          E. 340

**Correct Answers:**

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| B | E | B | C | A |

**Explanations:**

**1.** Number of calculators manufactured on Wednesday = 1680

Number of calculators manufactured on Monday

$= \dfrac{1680}{24} \times 18 = 1260$

Number of calculators manufactured on Thursday

$= \dfrac{1680}{24} \times 21 = 1470$

Therefore, reqd. average $= \dfrac{1680 + 1260 + 1470}{3} = 1470$

Hence, option B is correct.

**2.** Number of calculators manufactured on Wednesday = 1680

Number of calculators manufactured on Friday

$= \dfrac{1680}{24} \times 22 = 1540$

So, the number of portable calculators manufactured on Friday

$= \dfrac{5}{11} \times 1540 = 700$

Number of calculators manufactured on Tuesday

$= \dfrac{1680}{24} \times 15 = 1050$

Therefore, reqd. % $= \dfrac{700}{1050} \times 100 = 66.67\%$

Hence, option E is correct.

**3.** Number of calculators manufactured on Wednesday = 1680

Number of calculators manufactured on Tuesday

$$= \frac{1680}{24} \times 15 = 1050$$

So, the number of portable calculators manufactured on Tuesday

$$= \frac{2}{5} \times 1050 = 420$$

So, the number of desktop calculators manufactured on Tuesday = (1050 − 420) = 630

Let, the price of Desktop calculators and Portable calculators be Rs. 3x and Rs. 2x respectively

According to question,

630 × 3x + 420 × 2x = 109200
1890x + 840x = 109200
2730x = 109200

$$x = \frac{109200}{2730} = 40$$

Therefore, price of each portable calculator = 40 × 2 = Rs. 80

Hence, option B is correct.

**4.** Number of calculators manufactured on Wednesday = 1680

Number of calculators manufactured on Monday

$$= \frac{1680}{24} \times 18 = 1260$$

Therefore, required ratio = 1260 : 1680 = 3 : 4
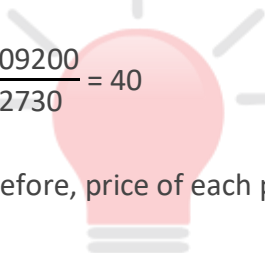
Hence, option C is correct.

**Alternate Solution:-**
Percentage of calculators manufactured on Monday = 18
Percentage of calculators manufactured on Wednesday = 24
Therefore, required ratio = 18 : 24 = 3 : 4
Hence, option C is correct.

**5.** Number of calculators manufactured on Wednesday = 1680

Number of calculators manufactured on Monday

$$= \frac{1680}{24} \times 18 = 1260$$

Number of calculators manufactured on Thursday
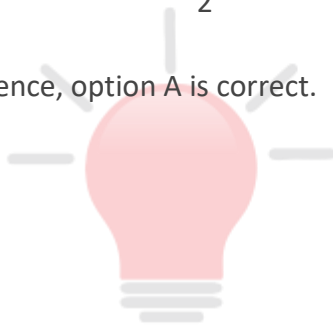
$$= \frac{1680}{24} \times 21 = 1470$$

Number of calculators manufactured on Tuesday

$$= \frac{1680}{24} \times 15 = 1050$$

Therefore, reqd. difference

$$= \frac{(1680 + 1260) - (1470 + 1050)}{2} = 210$$

Hence, option A is correct.