

Q. Prepare Proportionate Circle Diagram to represent to following data.

Towns	No. of obtain mark 500
1. Patna	25
2. Muz	18
3. Darbhanga	16
4. Purnea	7
5. Bhagalpur	20

$$r = \text{Assumed radius} \sqrt{\frac{\text{Any. No.}}{\text{Assumed / Selected No.}}}$$

$$\begin{aligned} r &= 2 \times \sqrt{\frac{25000}{7000}} \\ &= 2 \times \sqrt{3.57} \\ &= 2 \times 1.889 (1.89) \\ &= \underline{3.78 \text{ cm}} \end{aligned}$$

$$\begin{aligned} r &= 2 \times \sqrt{\frac{18}{7}} \\ &= 2 \times \sqrt{2.57} \\ &= 2 \times 1.60 \\ &= \underline{3.2 \text{ cm}} \end{aligned}$$

$$\begin{aligned} r &= 2 \times \sqrt{\frac{16}{7}} \\ &= 2 \times \sqrt{\quad} \end{aligned}$$

Divided Rectangles

Question

13	39
16	?

Answer

$$\frac{ab}{ac} = \frac{b}{c}$$

	a		d	
b	13	13	39	13
c	16	16	<u>48</u>	16

$$\frac{bd}{cd} = \frac{b}{c}$$

$$\frac{13}{16} = \frac{39}{x}$$

$$\therefore x = \frac{16 \times 39}{13} = 48$$