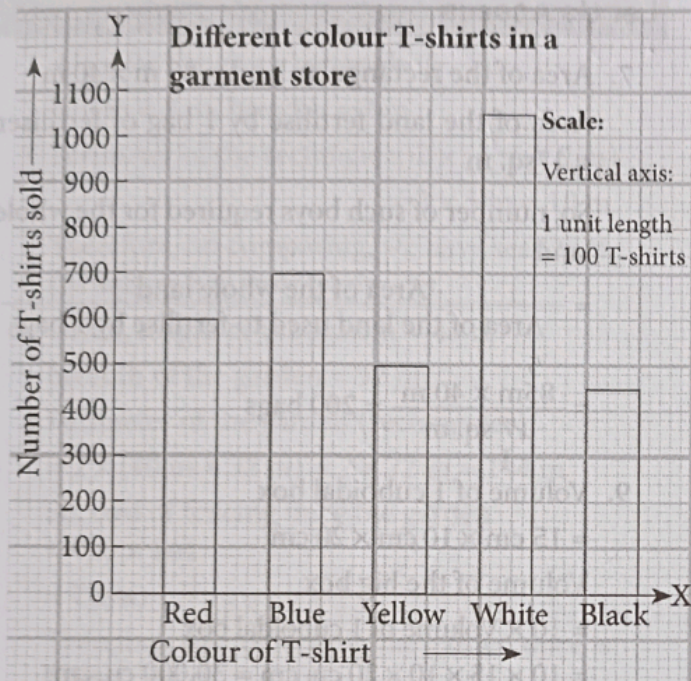


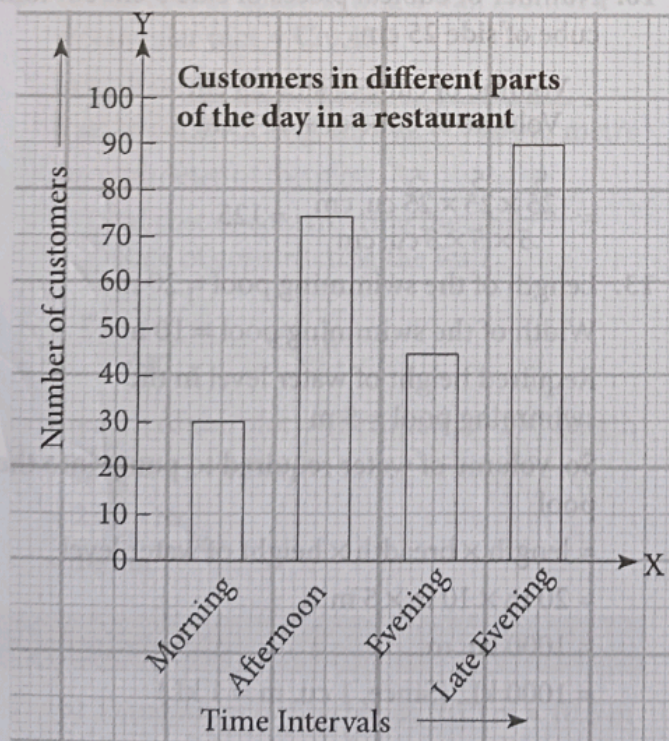
Data Handling

Checkpoint 16A

1.

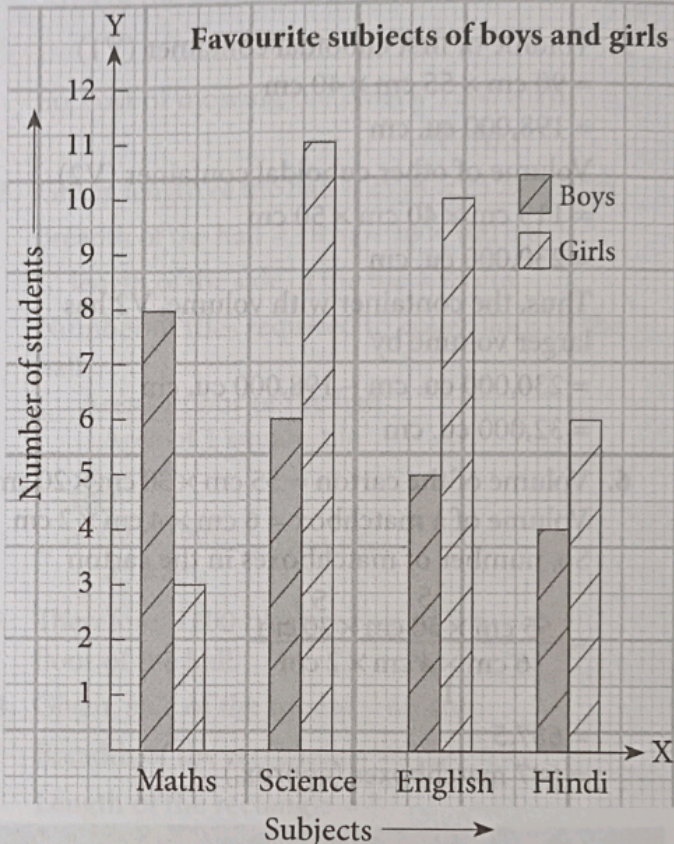


5.



Checkpoint 16B

1.



Checkpoint 16C

2. Total number of children = 72

Fraction of children who like apples

$$= \frac{12}{72} = \frac{1}{6} = \frac{2}{12}$$

Fraction of children who like bananas

$$= \frac{18}{72} = \frac{1}{4} = \frac{3}{12}$$

Fraction of children who like guavas

$$= \frac{6}{72} = \frac{1}{12}$$

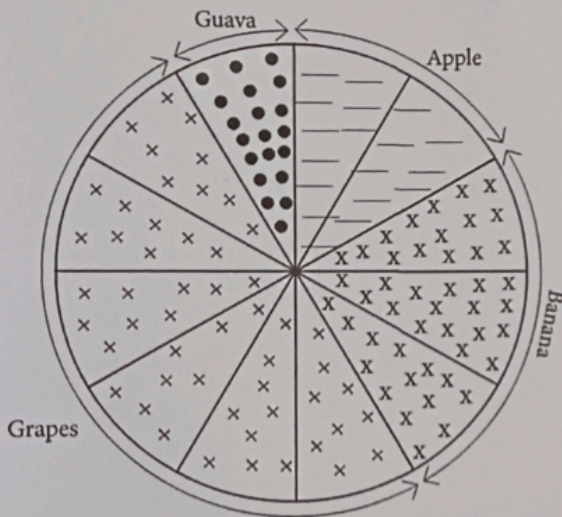
Fraction of children who like grapes

$$= \frac{36}{72} = \frac{1}{2} = \frac{6}{12}$$

Since, the given circle has

12 parts, so made the denominators of all the fractions same as 12.

Thus, we represent 2 parts by apple, 3 parts by banana, 1 part by guava and 6 parts by grapes as shown.



Let Us Assess

2. (a) We can see from the given pie-chart,

Fraction of feather hat clips

$$= \frac{1}{2} \text{ of quarter of the circle}$$

$$= \frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$$

$$(b) \text{ Fraction of claw clips} = \frac{1}{2} \text{ of } \frac{1}{4} = \frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$$

$$\text{Fraction of banana clips} = \frac{1}{2} \text{ of } \frac{1}{4} = \frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$$

$$\text{Fraction of snap clip} = \frac{1}{4}$$

$$\text{Fraction of comb clip} = \frac{1}{4}$$

Thus, required pairs of clips are as follows:

Feather, claw; Claw, banana; Banana, feather; Snap, comb

- (c) Fraction of feather as claw clips together

$$= \frac{1}{8} + \frac{1}{8} = \frac{2}{8} = \frac{1}{4}$$

Fraction of claw and banana clip together

$$= \frac{1}{8} + \frac{1}{8} = \frac{2}{8} = \frac{1}{4}$$

Fraction of banana and feather clips together

$$= \frac{1}{8} + \frac{1}{8} = \frac{2}{8} = \frac{1}{4}$$

So, (feather, claw) or (claw, banana) or (banana, feather) clips together makes the collection equal to snap clips.

5. (a) From the graph we can observe the point above the year 2018 meet the horizontal line crossing 300 on the vertical axis.

So, 300 children participated in the year 2018.

- (b) Similarly, from the graph we can observe the point above the year 2017 meet the horizontal line crossing 400 on the vertical axis.

So, 400 children participated in the year 2017.

- (c) Number of children participated in 2016 = 200

Number of children participated in 2020 = 450

Increased in the number of children = $450 - 200 = 250$