

Topic 1: Recording and Organisation of Data, Pictograph

Worksheet-1 (Engage)

1.	Shoe size	Tally marks	Number of students
	4		3
	5		4
	6		9
	7		3
	8		1
			20

(a) The size of shoes worn by the maximum number of students is 6

(b) The size of shoes worn by the minimum number of students is 8.

2.

Shirt size	Tally marks	Number of students
30		8
32		5
34		3
36		6
38		7
40		10

3. (a) seven (b) Wednesday (c) Friday

(d) Number of bulbs sold on Monday = 7

Number of bulbs sold on Tuesday = 9

Number of bulbs sold on Wednesday = 11

Number of bulbs sold on Thursday = 6

Number of bulbs sold on Friday = 4

Number of bulbs sold on Saturday = 5

Number of bulbs sold on Sunday = + 8































Total number of bulbs sold in a week = 50

(e) 11 bulbs can be packed in 1 carton

$\therefore 50$ bulbs can be packed in $\frac{1}{11} \times 50$ cartons = 4.54 cartons or 5 cartons.

Worksheet-2 (Explore)

1. Let  represent 4 bicycles.

Months	Number of bicycles
January	      
February	    
March	         
April	       

(a) In March, the maximum number of bicycles were purchased.

(b) The total number of bicycles purchased in first three months are $26 + 20 + 34 = 80$ bicycles

(c) Number of bicycles sold in March is 34

Number of bicycles sold in February is 20

In March, more bicycles were sold.





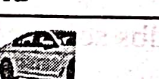










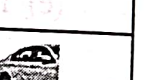









Number of bicycles more sold in March is 14 (i.e. $34 - 20 = 14$)

Marks obtained	Tally marks	Number of students
3		4
4		8
5		8
6		9
7		7
8		3
9		1
		40

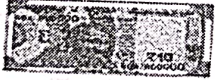
- (a) 1 (b) 39 (i.e., 40 - 1) (c) 0 (as maximum marks obtained is 9) (d) 3
 3. (a) data (b) tally (c) |||| |||| (d) pictograph


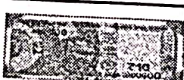
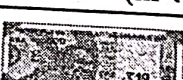



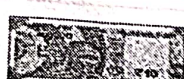
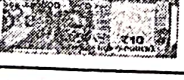
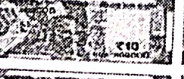
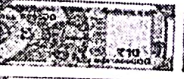
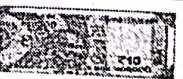
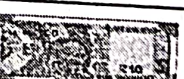



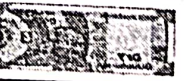
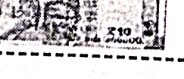

Worksheet-3 (Extend)



1. Let  represent 400 cars.

City	Number of cars sold
Delhi	    
Mumbai	  
Kolkata	
Bengaluru	      
Chandigarh	   
Lucknow	    

2. Yes;

3. Let  = ₹ 10 lakhs


Items	Expenditure (in ₹ lakhs)
Salaries of employees	      
Advertisement	
Purchase of machinery	       
Electricity and water	 


Transportation	
Other expenses	

Worksheet-4 (Elaborate)

1. (a)	Number of two-wheelers	Tally marks	Number of families
	0		2
	1		26
	2		21
	3		1
			50

(b) Total number of owners who owned 2 or more than 2 two-wheelers = $21 + 1 = 22$

2. (a) 1  = 40 flowers

5  = 5×40 flowers = 200 flowers

(b) (i) 8 (ii) 12 (iii) 9 (iv) 6

3. (a) In class IX and class X

(b) Number of scouts in class VIII is 2 times the number of scouts of Junior class.

(c) The total number of scouts are $(3 + 2 + 4 + 5 + 5) \times 15 = 19 \times 15 = 285$.

(d) The number of scouts in class VI is $3 \times 15 = 45$.

Topic 2 : Bar Graph

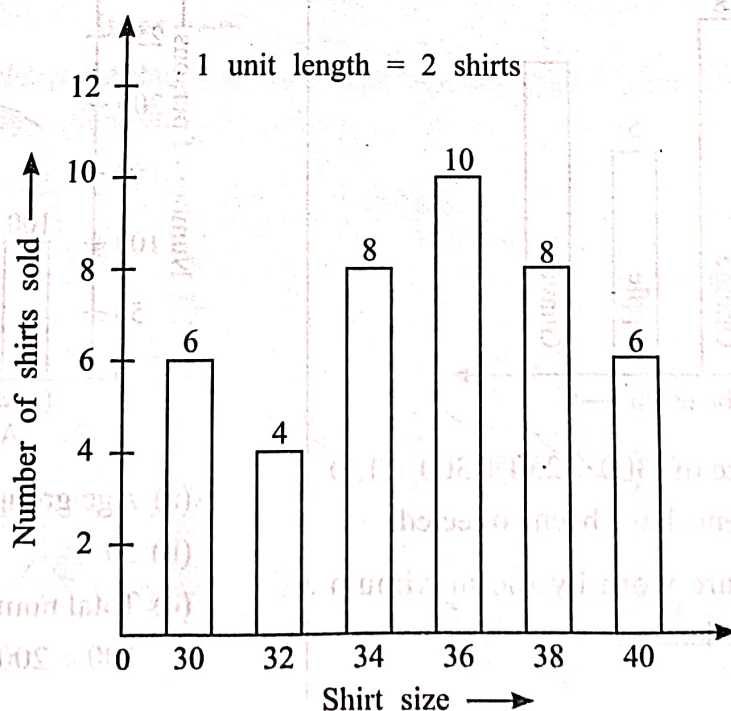
Worksheet-1 (Engage)

1. (a) Scale is 1 unit length = 10 students

(b) New students added every year are 20 students in 2016, 10 students in 2017 and 20 students in 2018.

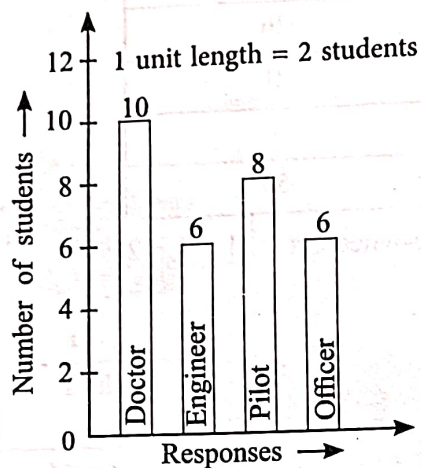
(c) In year 2016, the number of students is twice that in the year 2015.

2.



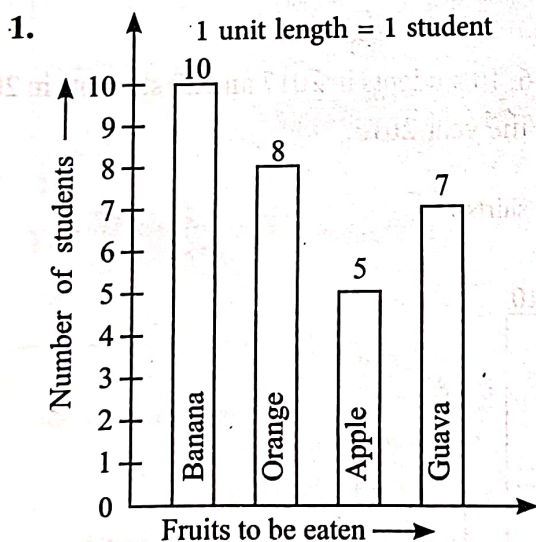
3.

Responses	Tally marks	Number of students
Doctor		10
Engineer		6
Pilot		8
Officer		6

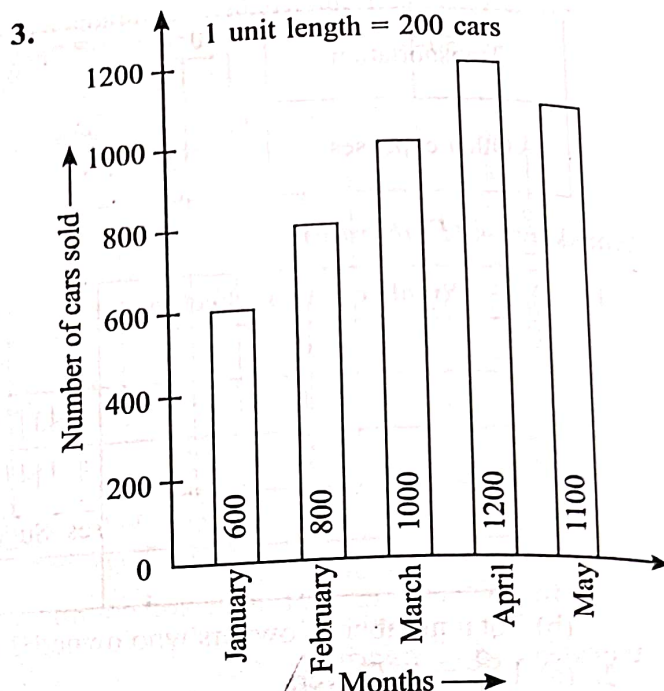


- (a) 8 students want to be pilot in future.
 (b) 16 students want to be a doctor or an engineer.

Worksheet-2 (Explore)

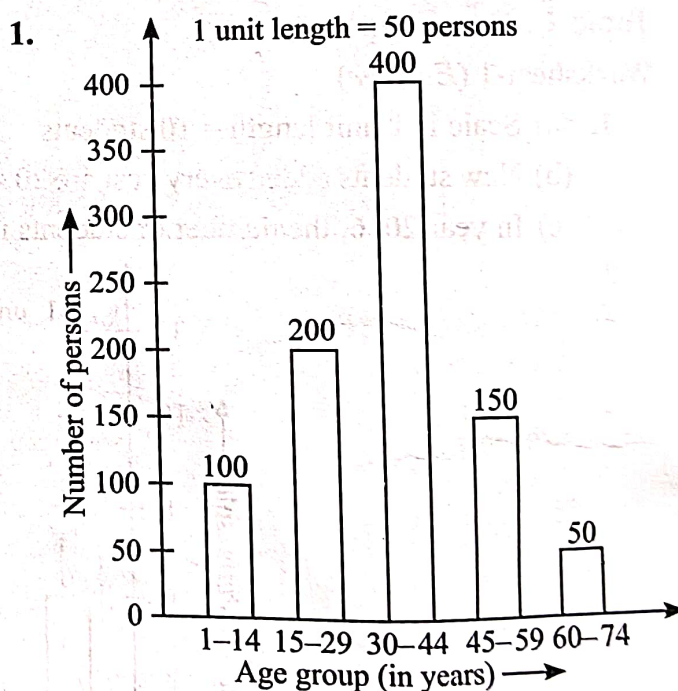


2. (a) The shoes size of $(300 + 250 + 300 + 150 = 1000)$ students have been collected.
 (b) Size 4 or 6 are worn by the maximum number of students.



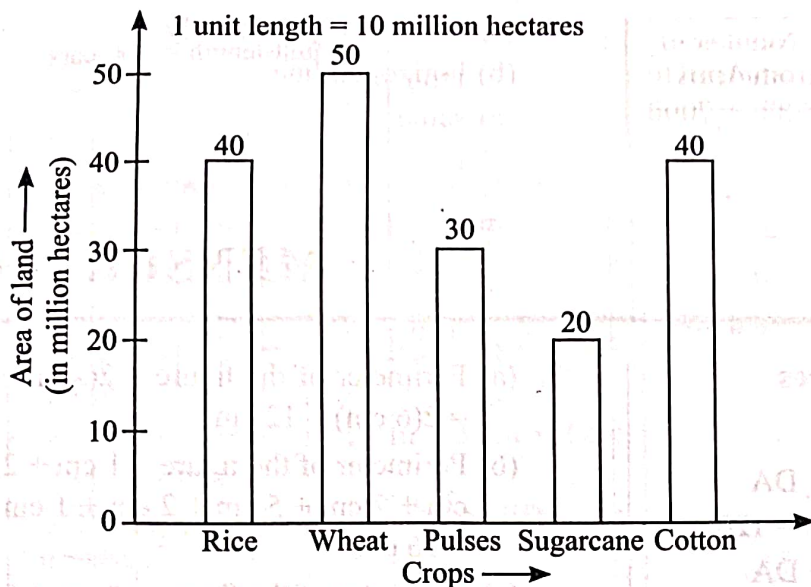
- (a) April (b) January
 (c) Total cars sold in March, April and May
 $= 1000 + 1200 + 1100 = 3300$ cars
 (d) $1000 - 600 = 400$ more cars were sold in March than in January.

Worksheet-3 (Extend)



- (a) Age group 30 to 44years
 (b) 50
 (c) Total number of persons in the mall are
 $100 + 200 + 400 + 150 + 50 = 900$

2.



(a) Wheat

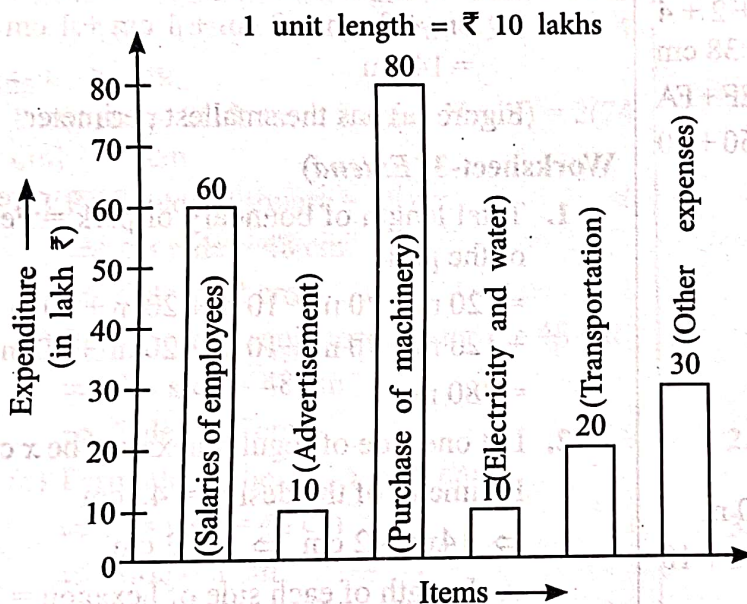
(b) Rice and cotton

(c) Sugarcane

(d) $40 + 30 = 70$ million hectares

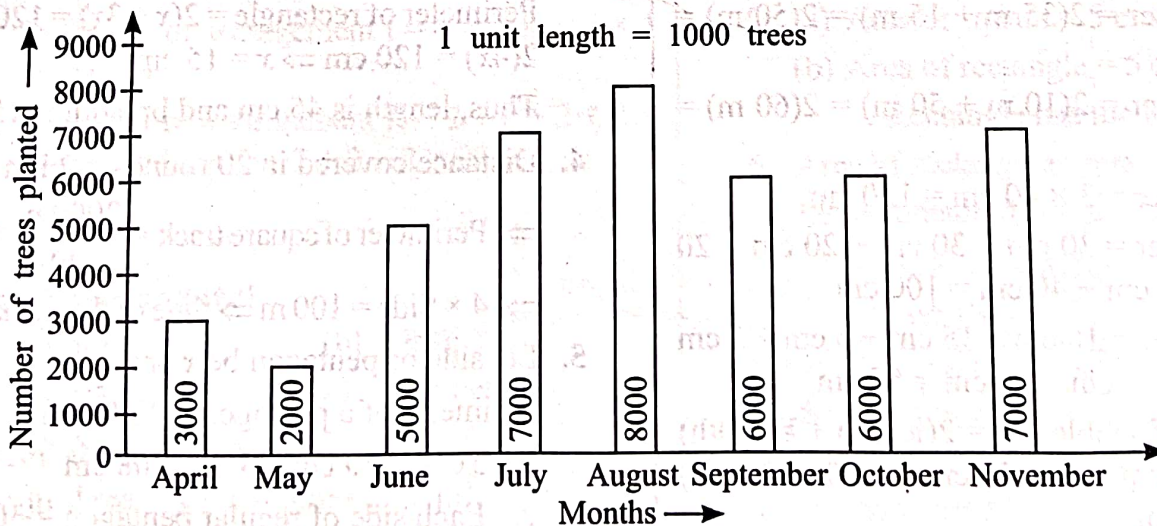
Worksheet-4 (Elaborate)

1.



2. A bar graph is a pictorial representation of the numerical data in which bars of uniform width are drawn horizontally or vertically with equal spacing between them.

3.



- (a) August (b) May
- (c) Total number of trees planted from April to
September = $3000 + 2000 + 5000 + 7000$
 $+ 8000 + 6000 = 31,000$

4. (a) horizontally, vertically
(b) horizontal line
(c) same