Statistics and Probability

Lesson 4: **Pictograms**

- Record, organise, represent and interpret data in pictograms

You will need
- paper
- ruler
- coloured pencils

1 Read the frequency table and key, then complete the pictogram.

Balloons sold

Colour	Frequency
red	4
blue	6
purple	8
pink	6
green	2

Key
🎈 = 2

Balloons sold

red	blue	purple	pink	green

2 How many shirts of each colour does the school have?

Number of shirts

red = [____]

blue = [____]

green = [____]

yellow = [____]

Schools sports shirts

red	☺ ☺ ☺ ☺ ☺ ☺
blue	☺ ☺ ☺ ☺ ☺ ☺
green	☺ ☺ ☺ ☺
yellow	☺ ☺ ☺

Key: ☺ = 2 shirts

3 The members of the school Nature Club recorded how many butterflies they spotted in a day. Use the data in the frequency table to complete the pictogram.

Number of butterflies

Name	Frequency
Hiba	30
Youssef	45
Miriam	20
Joseph	10

Number of butterflies spotted in one day

Hiba	
Youssef	
Miriam	
Joseph	

Key
🦋 = 10

4 Class 4 planted sunflowers. They used a pictogram to record how many sunflowers they planted each day.

Sunflowers

Monday	◉ ◉ ◉
Tuesday	◉ ◉ ◉ ◉ ◉ ◉ ◉
Wednesday	◉ ◉ ◉ ◉ ◉ ◉ ◖
Thursday	◉ ◉ ◉ ◉ ◉
Friday	◉ ◉ ◉ ◉ ◉ ◖

Key: ◉ = 10 sunflowers

a How many sunflowers did they plant on Friday? [____]

b On what day did they plant the most sunflowers?

_____

c How many more sunflowers did they plant on Wednesday than Thursday? [____]

d Write one statement about the data in the pictogram.

_____

5 A swimming club records the number of swimmers over a week.

Swimmers

Day	Number of swimmers
Monday	12
Wednesday	30
Friday	18

Use paper to draw two different pictograms. Choose a suitable symbol and decide on a different value for the symbol in each pictogram. Don't forget to include a title and a key with each of your pictograms.

Date: