Chapter 6

Statistics

Exercise 1

1. Use tally marks to represent each number. (Remember - ⅠⅠⅠⅠ ⅠⅠ stands for 7)

   a 3   **b** 8   **c** 12   **d** 19.

2. A group of people were asked to name their favourite character in "the Simpsons".

Homer	Lisa	Homer	Maggie
Bart	Lisa	Lisa	Lisa
Marge	Homer	Bart	Bart
Maggie	Bart	Marge	Lisa
Lisa	Maggie	Homer	Bart
Lisa	Lisa	Maggie	Maggie
Marge	Lisa	Maggie	Lisa

   a <u>COPY</u> and complete the tally table.

   b How many people chose Bart ?

   c Who was the most popular character ?

   d How many **more** people chose Maggie than Homer ?

   e How many people altogether were asked to name their favourite Simpson ?

Name	Tally	Number
Homer		
Bart		
Marge	Make a COPY	
Lisa	of this table	
Maggie		

3. 20 children at the tennis club were asked their age.

   The answers to the question are shown in the table.

8	10	12	8	9	9	8	9	9	12
9	10	10	8	8	10	8	12	10	12

   Make a **tally table** to show this information.

Exercise 2

1. The pictograph shows the number of pupils who walk their dog at lunch time during the school week.

   Key: stands for 2 pupils.

   Write down the number of pupils who walk their dog at lunchtime on a :-

   a   Monday   b   Tuesday

   c   Wednesday   d   Thursday

   e   Friday   f   school day.

Mon	😐 😐
Tues	😐 😐 😐
Wed	😐 😐 😐 😐 ◖
Thur	😐 😐 😐 ◖
Fri	◖

2. This pictograph shows the number of trees which were planted in a children's play-park during the summer holidays.

   Key: 🌳 stands for 4 trees.

Week 1	🌳
Week 2	🌳 🌳
Week 3	🌳 🌳 🌳 🌴
Week 4	🌳 🌴
Week 5	🌳 🌳 🌴

   a   How many trees were planted in :-

   (i) week 1 (the answer is **not** 1)

   (ii) week 2   **(iii)** week 3

   (iv) week 4   **(v)** week 5 ?

   b   How many trees were planted altogether ?
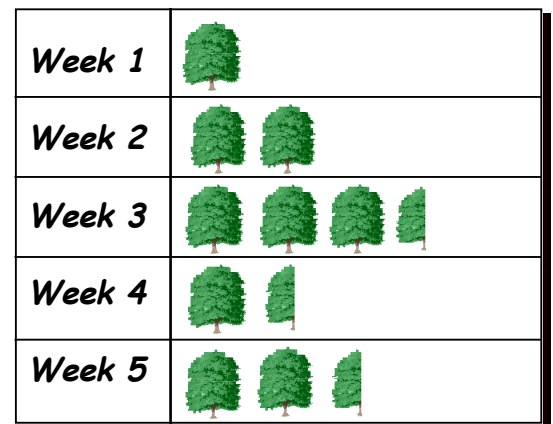
3. A number of people were asked to name their favourite food at a barbeque.

Fish	Hot Dogs	Pork	Chicken	Sausages
3	12	4	8	15

   Draw a neat pictograph to show this information.

   Use the key given below :-

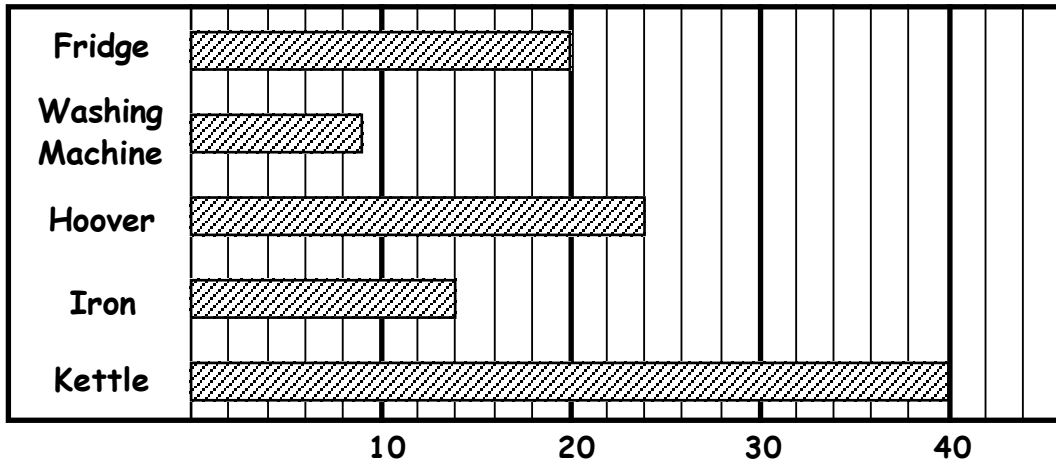   **Key:** ▭ stands for 3 people

Exercise 3

1. A group of people visited an electrical shop.
   They were asked which item broke down most often in their house.
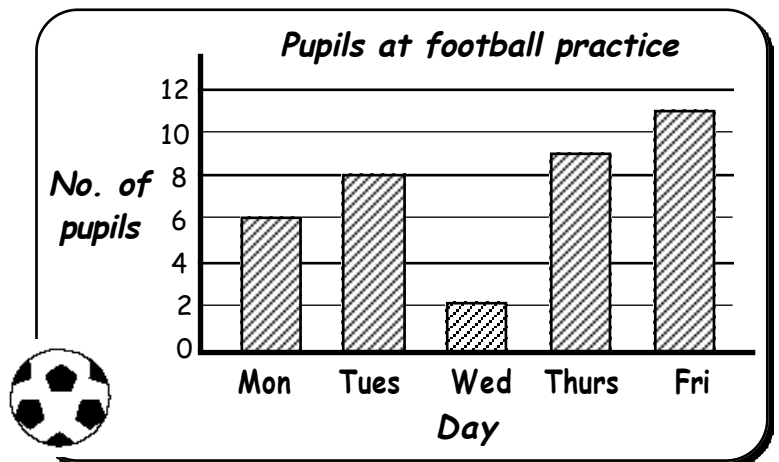
   The bar graph shows the answers.

   a   How many people said :-

   (i) fridge   **(ii)** washing machine   **(iii)** hoover

   (iv) iron   **(v)** kettle ?

   b   **(i)** Which item broke down the **most** ?

   (ii) Why you think this item breaks down the most.

   c   How many **fewer** people said washing machine than kettle ?

   d   How many people were asked altogether ?

2. The bar graph shows the pupils who attended football practice this week.

   a   How many pupils turned up on :-

   (i) Monday ?

   (ii) Thursday ?

   The team coach needs at least
   35 pupils to attend practice
   each week. If not, he cancels
   the following week's practice.

   b   Will next week's practice
   be cancelled ?   Explain your answer.

Pupils at football practice

3. Some P5 pupils were asked what their favourite fish food was.

    The bar graph shows the results.

    a Write down how many pupils chose **each** fish.

    b How many pupils were asked **in total** ?

Favourite Fish

No. of Pupils (tuna, squid, haddock, cod, salmon)

Fish
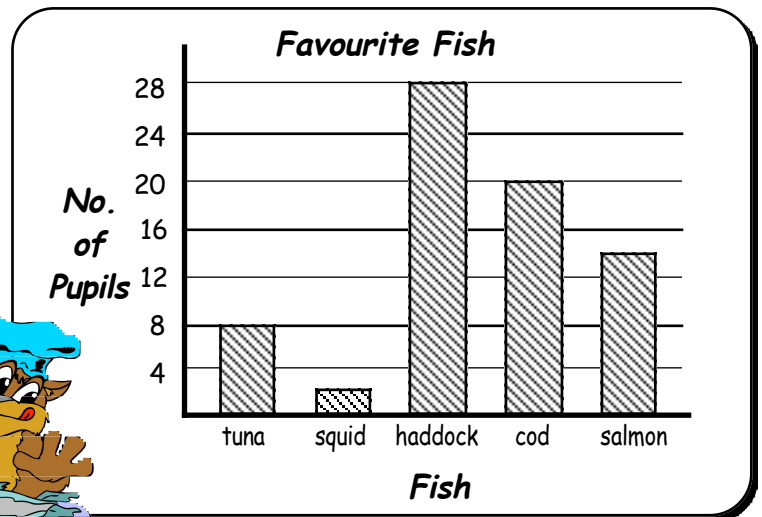
4. Thirty pupils in a Secondary class were asked to name their favourite teacher.

    The results are listed in the table below.

    Mr Jones (Mr J)   -   8

    Ms Take (Ms T)   -   10

    Mr Brock (Mr B)   -   1

   Mrs Woo (Mrs W)   -   5

    Mr Ali   (Mr A)   -   6
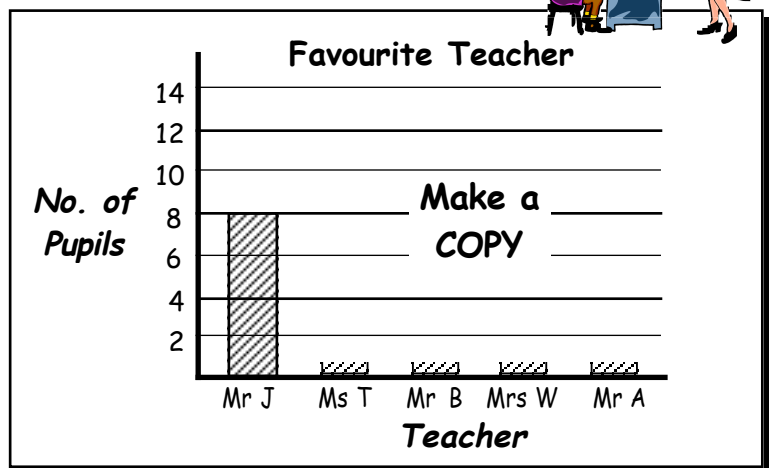
    COPY and complete the **bar graph** using the table above.

Favourite Teacher

No. of Pupils

Make a COPY

Mr J   Ms T   Mr B   Mrs W   Mr A

Teacher

Exercise 4

1. Mr and Mrs Todd are out eating again, this time at the Hong Kong Palace.
    The table shows what both of them had for dinner.

    a What did Mr Todd have to start with ?

    b What did Mrs Todd have for her **main course** ?

    c Write down what each person had for **pudding**.
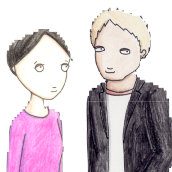
	Starter	Main	Pudding
Mr T	Soup	Curry	Banana Cake
Mrs T	Noodles	Chow Mein	Fresh Fruit

2. The table shows the number of pieces
    of fruit sold over a weekend.

	Fri	Sat	Sun
Bananas	3	5	11
Pears	10	12	9

   a   How many **bananas** were sold on :-

        (i) Sunday   **(ii)** Saturday   **(iii)** Friday   **(iv)** altogether ?
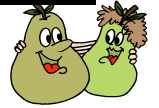
   b   How many **pears** were sold on :-

        (i) Sunday   **(ii)** Friday   **(iii)** altogether ?

   c   Over the three days, how many **more** pears were sold than bananas ?

3. The manager of a hotel is looking to buy a pool table for the games room.

    The table shows the cost of pool tables of different sizes and standards.

   a   How much would it cost
        for each of these pool tables :-

        (i)   small standard

        (ii)   medium economy

        (iii)   large deluxe

        (iv)   deluxe medium ?

	Small	Medium	Large
Economy	£400	£480	£510
Standard	£450	£500	£530
Deluxe	£500	£540	£600

   b   The hotel manager paid £530 for his pool table.
        Which one did he buy ?

4. This table shows the price of holidays
    for each adult and each child.

    How much would it cost for each
    of these holidays :-

   a   Ibiza, 1 adult for 1 week ?

   b   Cyprus, 1 adult for 2 weeks ?

   c   Minorca, 2 adults for 1 week ?

   d   Ibiza, 1 adult and 1 child
        for 2 weeks ?

   e   Mr Taylor, his wife and 2 children for two weeks in Minorca ?

	One week		Two weeks	
	Adult	Child	Adult	Child
Minorca	£135	£68	£210	£100
Ibiza	£145	£72	£240	£110
Cyprus	£289	£130	£405	£199

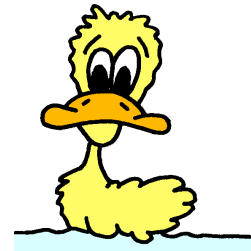**Revision Exercise**

1. Use tally marks to represent each number :–

    a   4   b   7   c   18   d   23.

2. A group of children were asked to name their favourite cartoon character.

Tweety	Porky	Tweety	Porky
Bunny	Yogi	Yogi	Yogi
Daffy	Tweety	Bunny	Bunny
Porky	Bunny	Daffy	Tweety
Yogi	Porky	Tweety	Bunny
Yogi	Porky	Porky	Porky
Daffy	Yogi	Porky	Bunny

    a   <u>COPY</u> and complete the tally table.

    b   How many children chose Yogi ?

    c   Who was the most popular character ?

    d   How many **more** children chose
        Bunny than Daffy ?

    e   How many children were asked to name
        their favourite cartoon character ?

Name	Tally	Number
Tweety		
Bunny		
Daffy	Make a COPY	
Porky	of this table	
Yogi		

3. This pictograph shows the results of a survey asking school cleaners
    what their favourite polish is.

    Key: ⚬⚬ stands for 4 cleaners
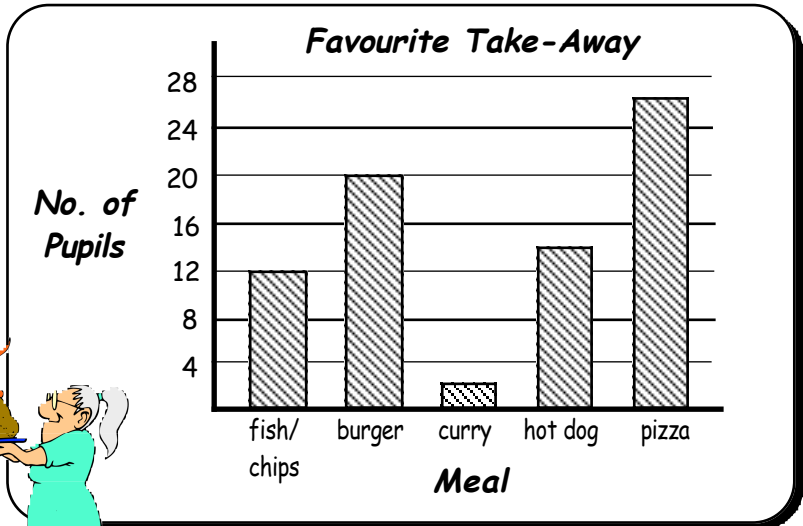
    a   How many cleaners chose :-

        (i)   Mr Shon

        (ii) Pludge   **(iii)** Kleeno

        (iv) Shino   **(v)**   Brusso ?

    b   How many cleaners were
        asked altogether ?

Mr Shon	⚬⚬ ⚬⚬
Pludge	⚬⚬ ⚬⚬ ⚬-
Kleeno	⚬⚬ ⚬-
Shino	⚬-
Brusso	⚬⚬ ⚬⚬ ⚬⚬ ⚬-

4. Some P1 pupils were asked for their favourite take-away meal.

The bar graph shows the results.

a Write down how many pupils chose **each** meal.

b How many pupils were asked **in total** ?

Favourite Take-Away

5. This table shows the price of staying in a hotel for a few nights.
Prices are for each adult and each child.

How much would it cost to stay at the following :-

a Donpurk, 1 adult for 1 night ?

b Ginhall, 1 adult for 2 nights ?

c Nurmodie, 2 adults for 2 nights ?

d Ginhall, 1 adult and 2 children for 1 night ?

| | One night | | Two nights | |
	Adult	Child	Adult	Child
Nurmodie	£55	free	£99	£25
Ginhall	£69	free	£105	£30
Donpurk	£50	£20	£85	£50

e Mrs Russell, her husband and 2 children for two nights at the Donpurk ?