Functional Skills Level 1

Data & Graphs — Worksheet 1

1. A survey asks 20 students how they travel to college. 8 walk, 7 travel by bus and 5 travel by car. How many students were surveyed?

2. Using the information in Question 1, what fraction of the students travel by bus? Give your answer in its simplest form.

3. A class records the number of books read by five students: 3, 5, 2, 6, 4. Find the total number of books read.

4. Using the data 3, 5, 2, 6, 4, find the mean number of books read.

5. The temperatures over five days were 12°C, 15°C, 14°C, 17°C and 12°C. What was the highest temperature?

6. Using the temperatures in Question 5, what was the range?

7. A shop records the number of customers on four days: Monday 45, Tuesday 52, Wednesday 48 and Thursday 55. Which day had the most customers?

8. Using the customer numbers in Question 7, how many customers visited the shop altogether?

9. A pictogram shows that each symbol represents 5 children. There are 6 symbols for children who chose football. How many children chose football?

10. A bar chart shows these numbers of drinks sold: Water 18, Juice 25, Tea 12, Coffee 20. Which drink sold the second-highest number?

11. Using the drink sales in Question 10, how many more juices than teas were sold?

12. A survey of 30 people asks their favourite fruit. Apples 12, bananas 8, oranges 6, grapes 4. What percentage chose apples?

13. A line graph shows a cyclist travelled 12 km in Week 1, 15 km in Week 2, 18 km in Week 3 and 20 km in Week 4. How many kilometres did the cyclist travel altogether?

14. Using the data in Question 13, how many more kilometres were travelled in Week 4 than Week 1?

15. A table shows the number of items sold: Pens 24, Pencils 18, Rulers 12. What is the total number of items sold?

16. Using the data in Question 15, what percentage of the items sold were pens? Give your answer to the nearest whole percent.

17. The scores in a quiz are 6, 8, 5, 8, 7, 4 and 8. What is the mode?

18. Using the quiz scores in Question 17, what is the median score?

19. A survey asks 50 people whether they prefer tea or coffee. 32 prefer tea. How many prefer coffee?

20. A pie chart represents 40 students. One quarter of the students chose swimming. How many students chose swimming?