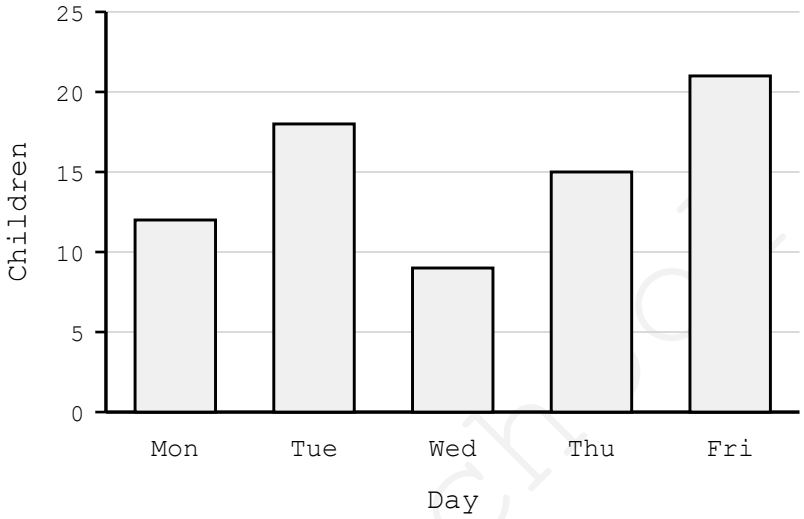
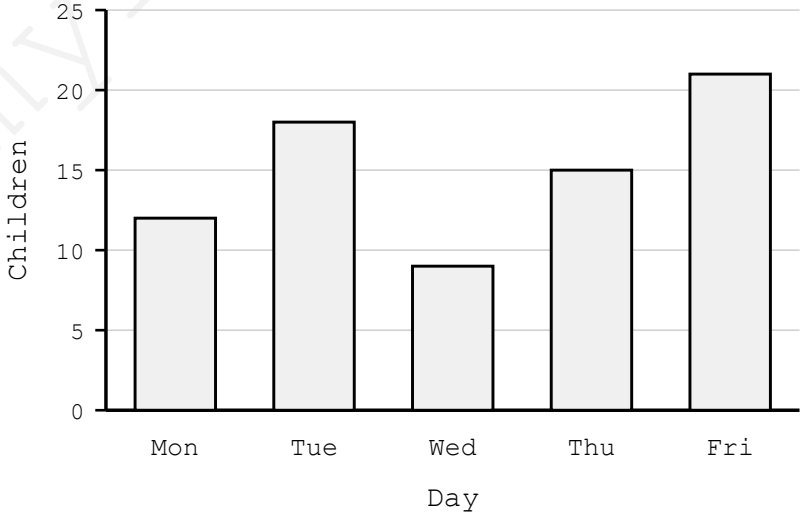
Data Handling & Probability: Medium Practice Paper 6

Q1. The bar chart shows how many children came to a sports club each day. What is the range of the daily numbers?



A. 9 *B.* 12 *C.* 15 *D.* 21 *E.* 30

Q2. Use the same sports club chart. What is the mean number of children per day?



A. 12 *B.* 14 *C.* 15 *D.* 18 *E.* 21

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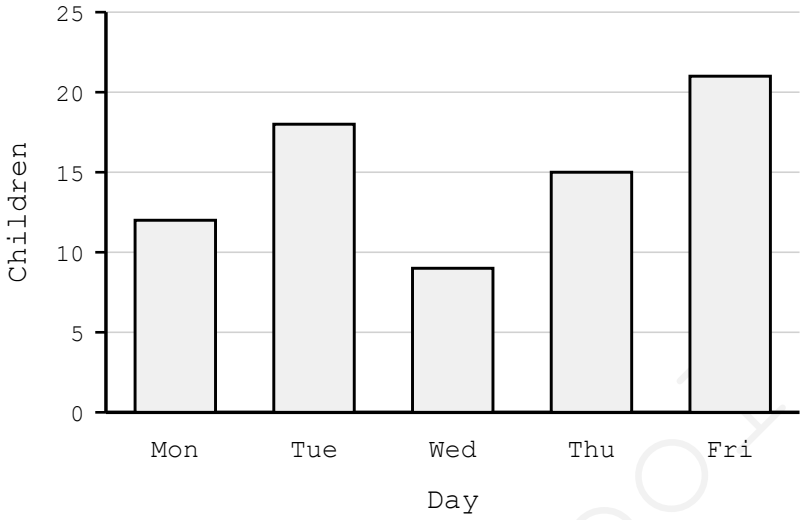
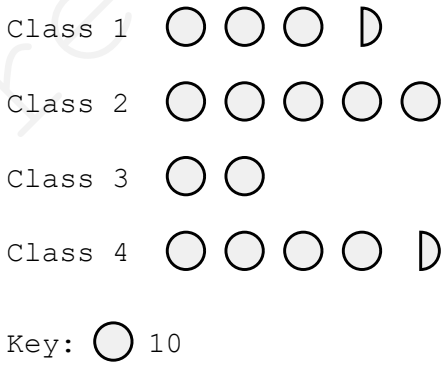
Q3. Use the same sports club chart. On how many days were there MORE children than the mean?



A. 1 *B.* 2 *C.* 3 *D.* 4 *E.* 5

Q4. The pictogram shows how many tins four classes collected for a food bank. How many tins did Class 4 collect?



A. 4 *B.* 40 *C.* 45 *D.* 50 *E.* 54

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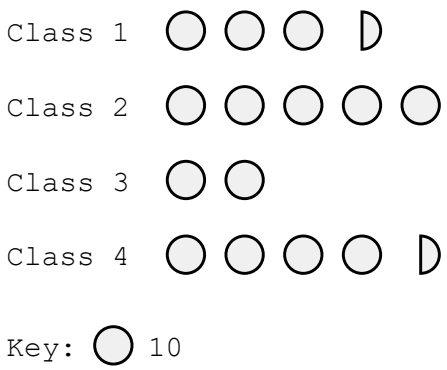
Q5. Use the same food bank pictogram. How many more tins did Class 2 collect than Class 3?



A. 3 *B.* 20 *C.* 25 *D.* 30 *E.* 70

Q6. Ali and Beth each sat five spelling tests. Ali scored 6, 7, 8, 7 and 7. Beth scored 2, 10, 4, 9 and 10. Both have a mean of 7. Whose scores are more consistent?

A. Ali, because his range is smaller

B. Beth, because her range is smaller

C. Ali, because his mean is higher

D. Beth, because her mean is higher

E. They are equally consistent

Q7. These are the ages, in years, of six children.

7, 9, 10, 12, 13, 15

What is the median age?

A. 10 *B.* 10.5 *C.* 11 *D.* 11.5 *E.* 12

Q8. Which of these sets of numbers has NO mode?

A. 3, 5, 5, 7, 9

B. 2, 2, 4, 4, 6

C. 1, 3, 5, 7, 9

D. 6, 6, 6, 8, 9

E. 4, 4, 5, 6, 6

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Q9. The mean of five numbers is 12. Four of the numbers are 8, 15, 11 and 9. What is the fifth number?

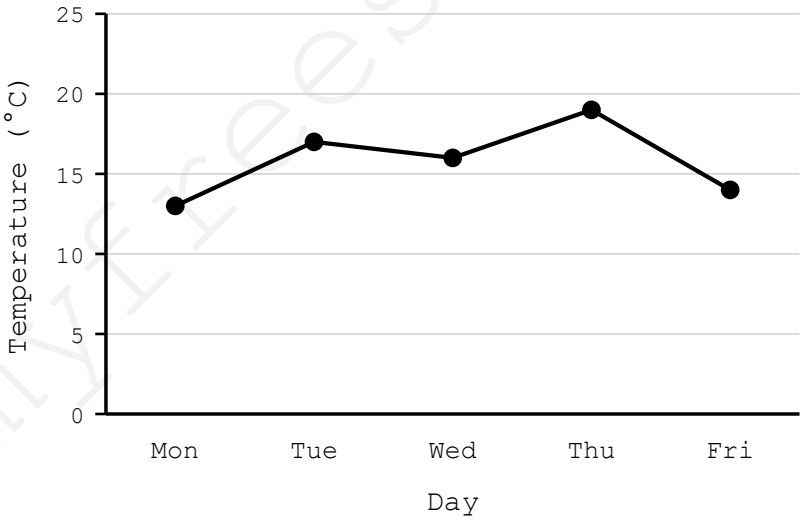
A. 12 *B.* 14 *C.* 16 *D.* 17 *E.* 19

Q10. The table shows how many goals a team scored in each of its 20 matches. In how many matches did the team score at least 2 goals?

Goals scored	**0**	**1**	**2**	**3**	**4**
Number of matches	3	5	6	4	2

A. 6 *B.* 10 *C.* 11 *D.* 12 *E.* 15

Q11. The line graph shows the temperature at noon on five days. On how many days was the temperature above 15 °C?



A. 1 *B.* 2 *C.* 3 *D.* 4 *E.* 5

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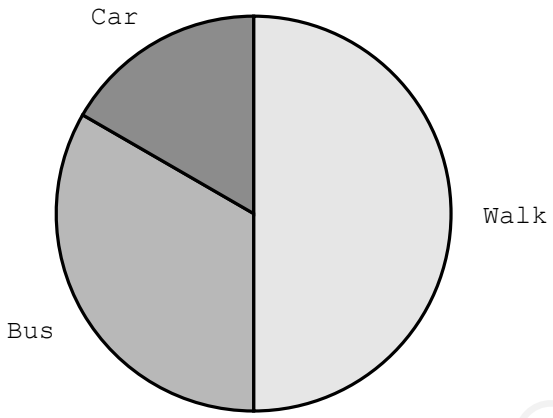
Q12. The pie chart shows how 60 pupils travel to school. The bus sector is exactly one third of the circle. How many pupils come by bus?



A. 10 *B.* 15 *C.* 20 *D.* 24 *E.* 30

Q13. A bag holds 5 red counters, 7 blue counters and 8 green counters. One counter is taken without looking. What is the probability that it is NOT green?

A. 2/5 *B.* 1/2 *C.* 3/5 *D.* 2/3 *E.* 4/5

Q14. A spinner was spun 80 times and landed on blue 20 times. Based on this experiment, what is the probability of landing on blue?

A. 1/8 *B.* 1/5 *C.* 1/4 *D.* 1/3 *E.* 1/2

Q15. Ravi wants to find out the favourite sport of the pupils in his school. He asks only the members of the football team. Why is this a poor way to find out?

A. He should have asked more than one question

B. He asked too many pupils at once

C. Football is not really a sport

D. The survey should be done in the winter

E. The pupils he asks are far more likely to choose football

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