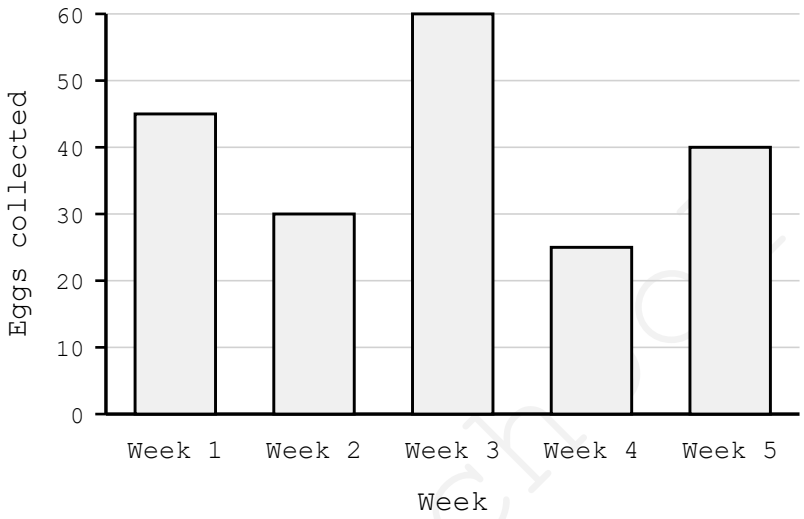
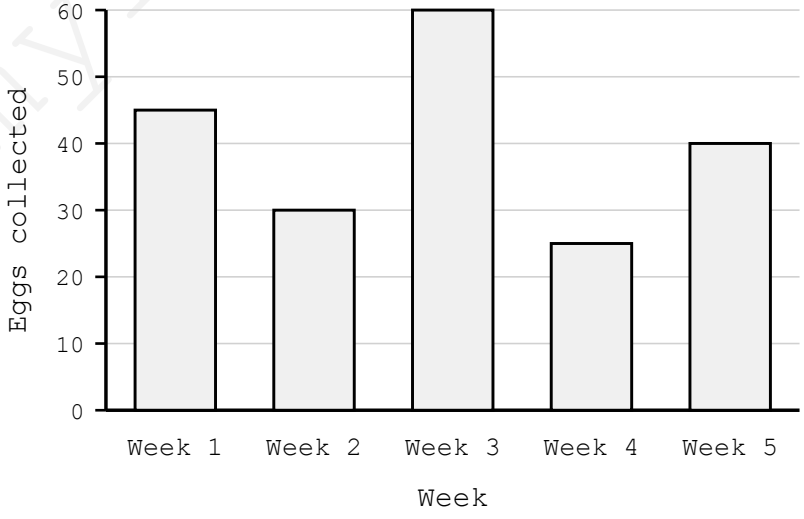
Data Handling & Probability: Hard Practice Paper 5

Q1. The bar chart shows the eggs collected on a farm each week. What is the mean number of eggs collected per week?



A. 40 B. 42 C. 44 D. 45 E. 48

Q2. Use the bar chart. What percentage of all the eggs was collected in Week 3?



A. 15% B. 20% C. 25% D. 30% E. 35%

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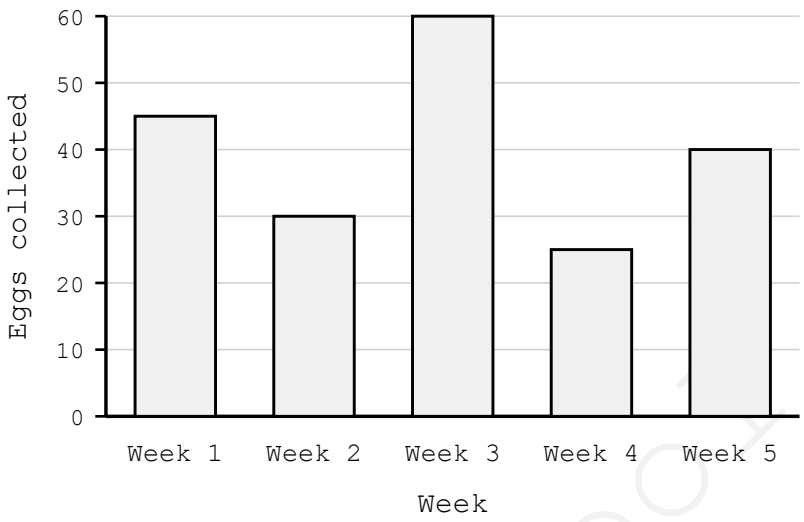
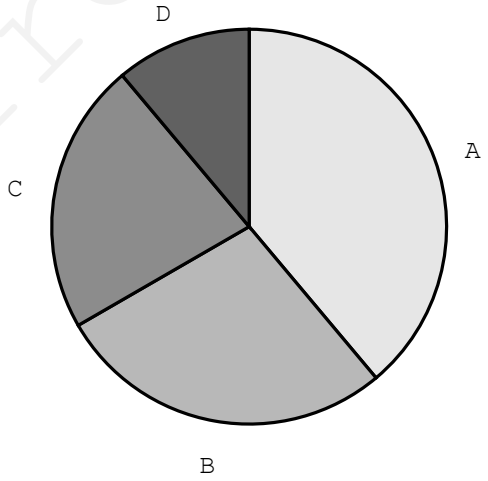
Q3. Use the bar chart. In Week 6 the farm collected 15% more eggs than in Week 5. How many eggs was that?



A. 44 B. 46 C. 48 D. 50 E. 55

Q4. The pie chart shows how 900 votes were shared between four candidates. The sector for candidate A has an angle of 140°. How many votes did candidate A get?



A. 225 B. 250 C. 300 D. 325 E. 350

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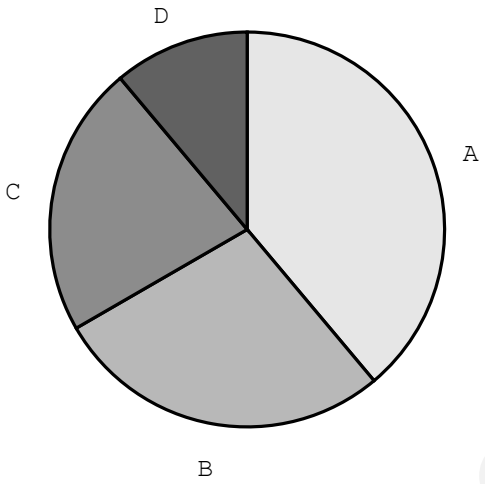
Q5. Use the same pie chart. Candidate D received 100 of the 900 votes. What is the angle of candidate D's sector?



A. 20° B. 30° C. 40° D. 50° E. 60°

Q6. The four numbers 4, 7, x and 10 have a mean of 8. What is the value of x?

A. 9 B. 11 C. 12 D. 13 E. 15

Q7. Six numbers have a mean of 10. Five of them are 7, 9, 11, 12 and 13. What is the range of all six numbers?

A. 6 B. 7 C. 8 D. 11 E. 13

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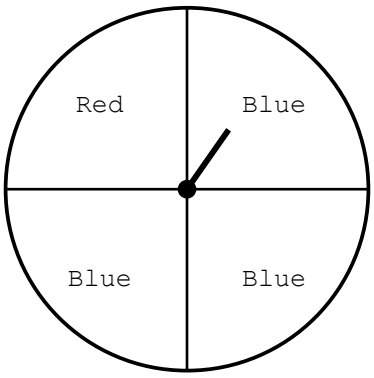
Q8. The spinner has 4 equal sections and is spun twice. What is the probability that it lands on blue both times?



A. 1/16 B. 3/16 C. 3/8 D. 9/16 E. 3/4

Q9. The two-way table shows the members of a sports club, but one number is missing. How many female senior members are there?

Members	Junior	Senior	Total
Male	24	36	60
Female	31	?	70
Total	55	75	130

A. 31 B. 35 C. 39 D. 44 E. 46

Q10. Use the two-way table. A senior member is chosen at random. What is the probability that the member is male?

Members	Junior	Senior	Total
Male	24	36	60
Female	31	?	70
Total	55	75	130

A. 6/25 B. 1/3 C. 9/25 D. 2/5 E. 12/25

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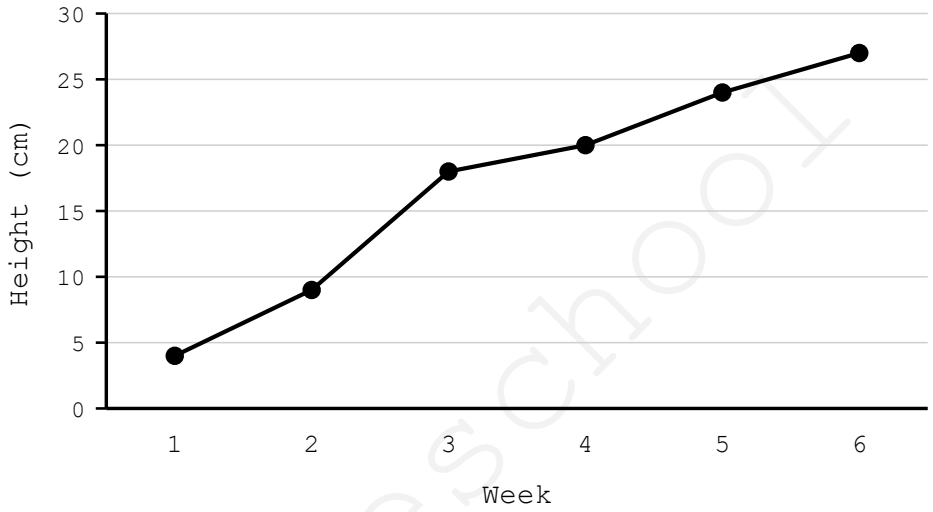
Q11. In a class every pupil likes maths or art, and some like both. 17 pupils like maths, 14 like art and 6 like both. How many pupils are in the class?

A. 19 B. 21 C. 23 D. 24 E. 25

Q12. The line graph shows the height of a sunflower each week. Between which two weeks did it grow the fastest?



A. Week 1 and week 2

B. Week 2 and week 3

C. Week 3 and week 4

D. Week 4 and week 5

E. Week 5 and week 6

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Q13. The table groups the scores in a quiz. How many people scored 20 or more?

Score	Number of people
0-9	4
10-19	12
20-29	9
30-39	5

A. 14 B. 16 C. 18 D. 21 E. 26

Q14. Use the table of quiz scores. What fraction of the people scored between 30 and 39?

Score	Number of people
0-9	4
10-19	12
20-29	9
30-39	5

A. 1/12 B. 1/8 C. 1/6 D. 1/5 E. 1/4

Q15. A bag holds 60 counters of different colours. A counter is taken out, its colour noted, and put back. This is done 40 times and a red counter comes out 14 times. Estimate how many of the 60 counters are red.

A. 14 B. 18 C. 20 D. 21 E. 24

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