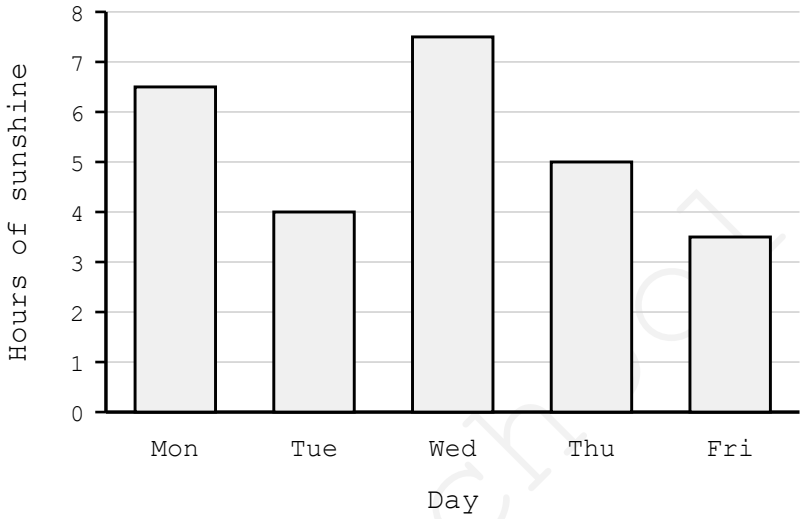
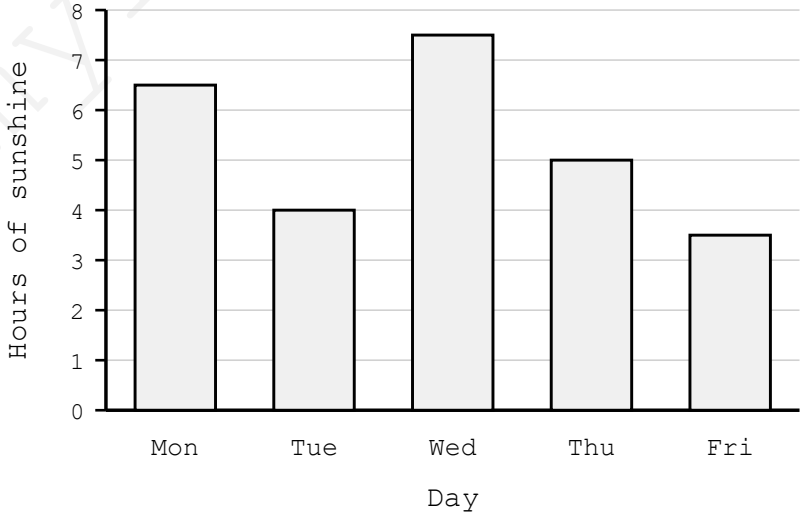
Data Handling & Probability: Hard Practice Paper 1

Q1. The bar chart shows the hours of sunshine recorded each day. How many hours of sunshine were there on Wednesday?



A. 5.5 B. 6.5 C. 7.5 D. 8.5 E. 9

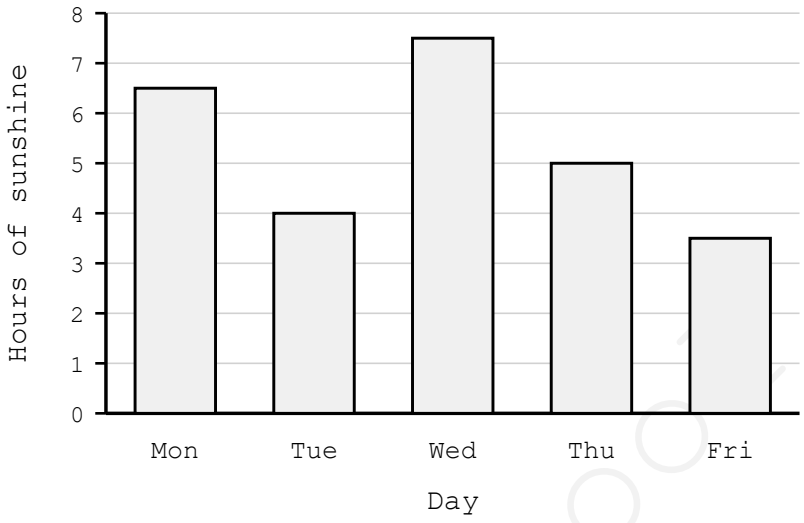
Q2. Use the bar chart. What is the mean number of hours of sunshine per day?



A. 4.8 B. 5 C. 5.1 D. 5.2 E. 5.3

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Q3. Use the bar chart. The following week had 40 hours of sunshine in total. How many more hours was that than the week shown?



A. 13.5 B. 14 C. 14.5 D. 15 E. 16.5

Q4. The table shows how many brothers and sisters each pupil in a class has. What is the median number?

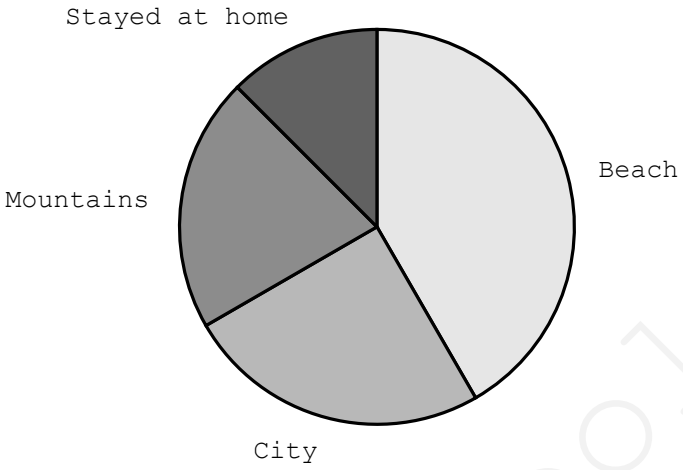
Brothers and sisters	Number of pupils
0	5
1	9
2	6
3	4

A. 1 B. 1.5 C. 2 D. 2.5 E. 3

Q5. The mean of six numbers is 15. A seventh number, 22, is now included. What is the mean of all seven numbers?

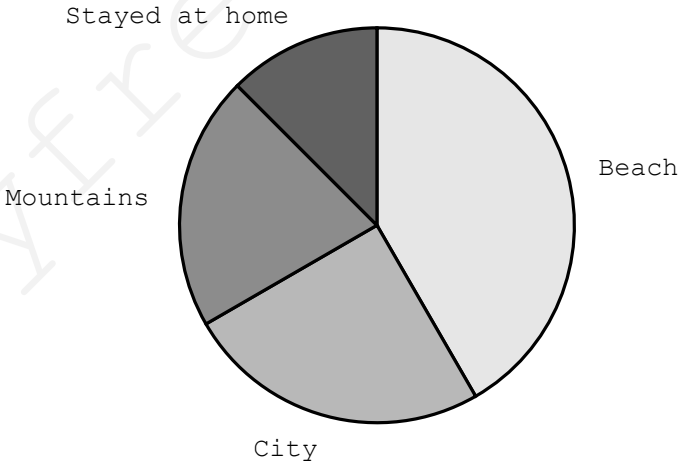
A. 14 B. 15 C. 15.5 D. 15.8 E. 16

Q6. The pie chart shows where 720 people went on holiday. The beach sector has an angle of 150°. How many people went to the beach?



A. 150 B. 200 C. 240 D. 300 E. 360

Q7. Use the same pie chart of 720 people. 90 of them stayed at home. What is the angle of the sector for staying at home?



A. 30° B. 45° C. 60° D. 72° E. 90°

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Q8. The mean of five numbers is 14. When one of the numbers is taken away, the mean of the four that are left is 15. Which number was taken away?

A. 10 B. 11 C. 12 D. 14 E. 16

Q9. The two-way table shows the club each pupil joined. A Year 6 pupil is chosen at random. What is the probability that the pupil joined drama?

Pupils	Chess	Art	Drama
Year 5	6	10	9
Year 6	10	5	10

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

Q10. Use the two-way table. One pupil is chosen at random from the whole table. What is the probability that the pupil is in Year 5 and joined art?

Pupils	Chess	Art	Drama
Year 5	6	10	9
Year 6	10	5	10

A. 1/25 B. 3/50 C. 1/10 D. 4/25 E. 1/5

Q11. In a test, the mean mark of the 12 boys was 62 and the mean mark of the 8 girls was 72. What was the mean mark of all 20 pupils?

A. 64 B. 65 C. 66 D. 67 E. 68

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Q12. A drawing pin is dropped 200 times and lands point up 130 times. Using this experiment, what is the best estimate of the probability that it lands point up?

A. 0.35 B. 0.65 C. 0.75 D. 0.85 E. 0.95

Q13. A bag holds 5 red counters and 3 blue counters. A red counter is taken out and kept. What is the probability that the next counter taken is also red?

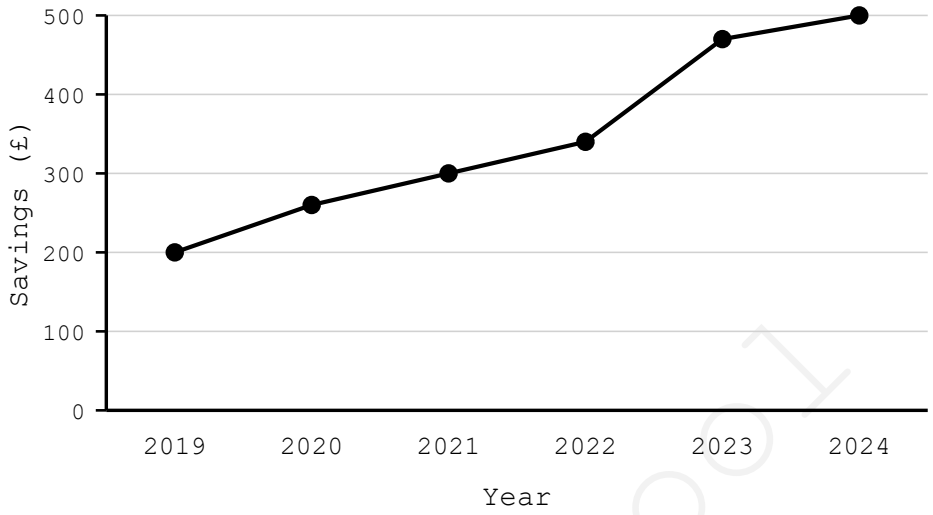
A. 3/8 B. 3/7 C. 1/2 D. 4/7 E. 5/7

Q14. In a class of 32 pupils, 20 play an instrument and 15 sing in the choir. 5 pupils do neither. How many pupils do both?

A. 5 B. 6 C. 8 D. 10 E. 12

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Q15. The line graph shows the money in a savings account at the end of each year. Between which two years did the savings grow the most?



A. 2019 and 2020

B. 2020 and 2021

C. 2021 and 2022

D. 2022 and 2023

E. 2023 and 2024

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