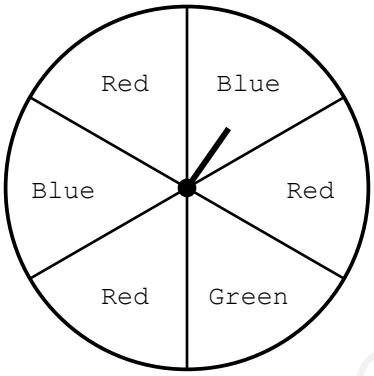
Data Handling & Probability: Medium Practice Paper 7

Q1. The spinner has 6 equal sections. What is the probability that it does NOT land on red?



A. 1/6 *B.* 1/3 *C.* 1/2 *D.* 2/3 *E.* 5/6

Q2. A fair six-sided dice is rolled once. Which of these outcomes has a probability closest to one half?

A. Rolling a 6

B. Rolling a number less than 3

C. Rolling a 7

D. Rolling an even number

E. Rolling a number greater than 0

Q3. Which of these probabilities describes the MOST likely event?

A. 0.35 *B.* 1/3 *C.* 45% *D.* 2/5 *E.* 30%

Q4. The probability that it rains tomorrow is 0.65. What is the probability that it does not rain?

A. 0.25 *B.* 0.35 *C.* 0.45 *D.* 0.65 *E.* 1.35

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Q5. A fair coin is flipped and a fair spinner numbered 1 to 4 is spun. How many different outcomes are possible altogether?

A. 4 *B.* 6 *C.* 8 *D.* 10 *E.* 16

Q6. A fair coin is flipped twice. What is the probability of getting two tails?

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

Q7. A bag holds 4 red counters and 6 blue counters. A red counter is taken out and kept. What is the probability that the next counter taken is also red?

A. 1/5 *B.* 1/3 *C.* 3/10 *D.* 2/5 *E.* 1/2

Q8. A fair six-sided dice is rolled 120 times. How many times would you expect to roll a number greater than 4?

A. 20 *B.* 30 *C.* 40 *D.* 60 *E.* 80

Q9. A spinner has 5 equal sections: 3 are red, 1 is blue and 1 is green. In a game, Anya wins if it lands on red and Ben wins if it does not. Is the game fair?

A. No, Ben is more likely to win

B. Yes, they have the same chance

C. Yes, because there are two players

D. It cannot be decided

E. No, Anya is more likely to win

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Q10. The two-way table shows the club each pupil joined. One of the pupils is chosen at random. What is the probability that the pupil is in Year 5?

	Art	Drama	Total
Year 5	12	8	20
Year 6	9	16	25
Total	21	24	45

A. 4/9 *B.* 5/9 *C.* 12/45 *D.* 20/25 *E.* 1/2

Q11. Use the same two-way table. A Year 6 pupil is chosen at random. What is the probability that this pupil chose art?

	Art	Drama	Total
Year 5	12	8	20
Year 6	9	16	25
Total	21	24	45

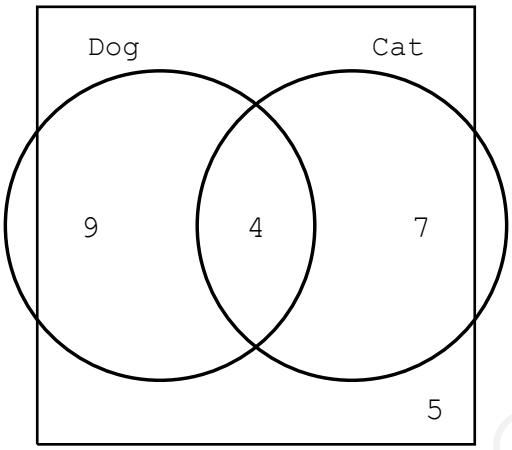
A. 9/45 *B.* 9/21 *C.* 9/25 *D.* 16/25 *E.* 21/45

Q12. A bag holds only red, blue and green counters. The probability of taking a red is 1/4 and the probability of taking a blue is 1/2. What is the probability of taking a green?

A. 1/8 *B.* 1/6 *C.* 1/4 *D.* 1/3 *E.* 3/4

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Q13. The Venn diagram shows whether pupils have a dog or a cat. One of the pupils is chosen at random. What is the probability that the pupil has neither animal?



A. 1/5 *B.* 4/25 *C.* 7/25 *D.* 1/4 *E.* 9/25

Q14. A drawing pin was dropped 200 times and landed point up 60 times. If it is dropped 500 times, how many times would you expect it to land point up?

A. 60 *B.* 120 *C.* 150 *D.* 180 *E.* 250

Q15. There are 12 counters in a bag and the probability of taking a red one is 1/3. How many red counters are in the bag?

A. 3 *B.* 4 *C.* 5 *D.* 6 *E.* 9

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