Year 9 Probability – Foundation

HappyKids.fit

Year 9 · Maths · Probability · Level 1 Foundation · 10 questions

Name _____ **Date** _____

A. Probability skills

1. Tomorrow's weather will be sunny, cloudy, rainy or snowy. P(sunny) = 0.3, P(cloudy) = 0.45, P(rainy) = 0.15. Find P(snowy) and P(sunny or snowy).

Answer _____

2. A counter is taken at random from a bag of red, white, blue and black counters. P(red) = 0.4, P(white) = 0.3, P(blue) = 0.1. Find P(black) and P(red or black).

Answer _____

3. The probability that Sam's bus is late is 0.3. The probability that it rains in the morning is 0.55. The two events are independent. Find the probability that neither event happens.

Answer _____

4. A fair coin is flipped and a fair spinner numbered 1 to 5 is spun. The results are independent. Find the probability of tails and a number greater than 3.

Answer _____

5. Spinner A is numbered 1 to 8 and spinner B is numbered 1 to 4. Both are fair and are spun once. Use a sample space diagram to find the probability that both numbers are the same.

Answer _____

6. Spinner A is numbered 1 to 6 and spinner B is numbered 1 to 3. Both are fair and are spun once. Use a sample space diagram to find the probability that the difference between the two numbers is 2.

Answer _____

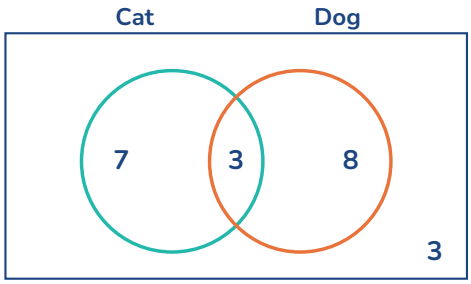
7. A card is taken at random from cards numbered 1 to 24. Find the probability that the number is a multiple of 3 or a multiple of 4.

Answer _____

8. A card is taken at random from cards numbered 1 to 36. Find the probability that the number is a square number.

Answer _____

9. The Venn diagram shows the students in a group who own a cat or a dog. A student is chosen at random. Find the probability that the student owns a cat but not a dog, and the probability that the student owns a cat and a dog.



Answer _____

10. The two-way table shows what 77 visitors bought to drink at a café. One of them is chosen at random. Find the probability that the visitor did not buy juice.

	Tea	Coffee	Juice	Total
Adults	6	24	4	34
Children	16	9	18	43
Total	22	33	22	77

Answer _____