FINDING SIMPLE PROBABILITIES

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

1.	A fair six-sided die is rolled. What is the probability of rolling a 3?	1/6	2.	A bag contains 4 red marbles and 6 blue marbles. What is the probability of drawing a red marble?	2/5
3.	A spinner has 8 equal sections numbered 1 to 8. What is the probability of landing on an even number?	1/2	4.	A standard deck of 52 cards is shuffled. What is the probability of drawing a heart?	1/4
5.	A fair coin is flipped. What is the probability of landing on heads?	1/2	6.	A box contains 5 green pencils and 3 yellow pencils. What is the probability of picking a yellow pencil?	3/8
7.	A spinner has 5 equal sections: 2 red, 2 blue, and 1 green. What is the probability of landing on red?	2/5	8.	A bag contains 7 black balls and 3 white balls. What is the probability of drawing a white ball?	/10

9.	A fair six-sided die is rolled. What is the probability of rolling a number greater than 4?	1/3	10.	A standard deck of 52 1/13 cards is shuffled. What is the probability of drawing a king?
11.	A jar contains 10 sweets: 4 are strawberry and 6 are lemon. What is the probability of picking a strawberry sweet?	2/5	12.	A fair six-sided die is rolled. What is the probability of rolling an odd number?
13.	A bag contains 8 red counters and 4 blue counters. What is the probability of drawing a blue counter?	1/3	14.	A spinner has 10 equal sections: 3 are yellow, 4 are blue, and 3 are green. What is the probability of landing
15.	A standard deck of 52 cards is shuffled. What is the probability of drawing a queen or a	2/13	16.	on yellow? A fair six-sided die is rolled. What is the probability of rolling a prime number?
17.	king? A bag contains 5 black pens, 3 red pens, and 2 blue pens. What is the probability of picking	3/10	18.	A spinner has 6 equal sections: 1 is red, 2 are blue, and 3 are green. What is the probability of landing on green?
19.	a red pen? A standard deck of 52 cards is shuffled. What is the probability of drawing a diamond or a club?	1/2	20.	A fair six-sided die is rolled. What is the probability of rolling a number divisible by 3?

MASTER QUESTIONS



M1.	In a class of 30 students, 12 are boys. If a student is chosen at random, what is the probability that the student is a girl?
M2.	A bag contains 12 counters: some are red and the rest are blue. The probability of drawing a red counter is 1/3. How many blue counters are in the bag?
M3.	A spinner has sections numbered 1 to 10. What is the probability of landing on a number that is a multiple of both 2 and 3?
M4.	In a lottery, 1000 tickets are sold. You buy 5 tickets. What is the probability that you will win if only one ticket is drawn?
M5.	A box contains 15 chocolates: 6 are milk, 5 are dark, and 4 are white. If one chocolate is taken at random, what is the probability that it is not white?
M6.	A bag contains 20 marbles: 8 are green, 7 are yellow, and 5 are red. If one marble is drawn, what is the probability that it is either green or red?
M7.	A fair six-sided die is rolled twice. What is the probability of rolling a 4 both times?
M8.	A jar contains 24 jelly beans: 10 are cherry, 8 are lime, and 6 are orange. If two jelly beans are drawn without replacement, what is the probability that both are lime?
M9.	A card is drawn from a standard deck, replaced, and then another card is drawn. What is the probability that both cards are spades?
M10.	A bag contains 5 white balls and 7 black balls. If two balls are drawn without replacement, what is the probability that both are white?