Unit 13_Probability_Practice 1.1

Focus points

- Identify complementary events
- Calculating probability based on complementary events.

Need to remember

1/ The sum of probabilities of all possible outcomes is 1.

2/ The sum of probabilities of 2 complementary events is 1.

Part 1: Choose the correct answers

Question 1: How many possible outcomes when a football team play a match?

A. 2 (win or lose)
C. 2 (win or draw)
B. 3 (win, lose or draw)
D. many possible outcomes.

Question 2: The probability that a football team win a match is 0.3. Which of the following is the complementary event of win a match.

A. not win
B. draw
C. lose

Question 3: The probability of a football team win a match is 0.3. What is the probability of the complementary event of win a match.

A. 0.3
C. 0.7
B. 0.6
D. 0.4

Question 4: How many possible outcomes when you roll a fair (or unbiased) dice?

A. 6
C. 4
B. 5
D. 3

Question 5: The probability of throwing number 3 when you throw a fair or unbiased dice?

A. 1/6
C. 1
B. 5/6
D. 3/4

Question 6: Which of the following is the complementary event of throwing number 3 when you throw a dice?

A. not throwing a 3
B. throwing a 1,2,4,5, or 6
C. both of the above is correct
D. both of the above is not correct

Question 7: A dice is biased. The probability of throwing 3 is 1/4 and the probability of throwing 6 is 1/8 . What is the probability of not throwing 3?

A. 3/4
B. 7/8
C. 5/6
D. 2/3

Question 8: A dice is biased. The probability of throwing 3 is 1/4 and the probability of throwing 6 is 1/8 . What is the probability of throwing less than 6?

A. 3/4
B. 7/8
C. 5/6
D. 2/3

Question 9: The probability that Tom will cycle to school is 1/2 . The probability that he will take the bus is 1/3 . What is the probability that he will neither cycle or take the bus?

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

Question 10: A spinner has sectors in different colors. The probability it is red is 0.3. What is the probability that it is not red?

A. 0.4
B. 0.3
C. 0.7
D. 0.6

Part 2: State whether the following are complementary events.

Statements	True	False
a/ Getting an even number and getting an odd number when rolling a dice		
b/ Getting a prime number, getting an even number when rolling a dice		
c/ All student attend class, no student attend class		
d/ It will rain tomorrow, it will be sunny tomorrow		
e/ I will pass the exam, I will fail the exam.		
f/ The football team will win the match, the football team will lose a match		
g/ Tom goes to school on time, Tom go to school late		