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)
B. 3 (win, lose or draw)
C. 2 (win 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
B. 0.6
C. 0.7
D. 0.4

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

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

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

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

LIVEWORKSHEETS

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

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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		

LIVEWORKSHEETS