Name: _____ Period: _____ Date: _____

Probability of Compound Events Assignment

Solve problems involving probability of compound events.

1. What is the probability of drawing a jack and a black card from 52 card deck of cards?

2. What is the probability of getting an even number and a sum of 6 in rolling a pair of dice?

3. What is a probability of drawing a red card or a Jack from a 52 card deck of cards?

4. What is the probability of getting an odd number or a sum greater than 10 in rolling a pair of dice?

5. What is the probability of getting an Ace or an even number when drawing a card from 52 card deck of cards?

The probability that Lorna will win a race is 60% and that Belinda will win another race is 40%. Find the probability that:

6. Lorna and Belinda will win their respective races

7. Lorna or Belinda wins

8. Lorna Wins and Belinda loses

In a certain community 40 out of 1200 males and 70 out of 1400 females are unemployed.

9. What is the probability that the person selected is a female unemployed?

10. What is the probability that the person selected is a male or unemployed?

In a group of 100 students, 35 can speak Korean, 45 can speak Chinese and 10 can speak both languages. If a student is selected random, what is the probability of selecting a student who

11. Can speak Chinese or Korean?

12. Can speak Chinese and Korean?

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Probability of Compound Events Assignment

In a 52 deck of cards, what is the probability of

13. Selecting a queen or a card greater than 5 but less than 10?

14. Selecting a spade and less than 6?

The contingency table below shows the distribution of students according to gender and field of specialization

Gender	HRM (H)	Tourism (T)	Psychology (P)	Total
Male (M)	15	10	4	
Female (F)	11	9	2	
Total				

If a student is selected at random, find

15. $P(H \cup T)$

16. $P(M \cup F)$

17. $P(M \cup H)$

18. $P(F \cup T)$

19. $P(M \cap P)$

20. $P(F \cap H)$