

Student No.:	Date: / /	Score:
Student Name:		/15

Revision of Introduction to Probability (I)

Exercises

1. Owen randomly selects a day to hang out with friends in March. According to the calendar, find the probability that he hangs out with friends on

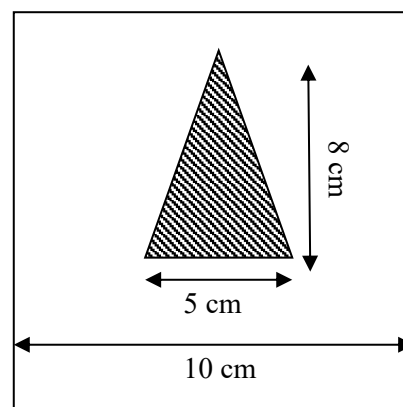
(a) Monday,

(b) Tuesday.

March						
M	T	W	T	F	S	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

2. In a school, the ratio of the number of students in junior form to that of the students in senior form is 4:5. If a student is randomly selected, find the probability that the selected student is in junior form.

3. The figure shows a square dartboard with a triangular target. A dart is randomly thrown and hits the dartboard. Find the probability that it does not hit the target.



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4. There are two boxes, X and Y. Box X contains five cards numbered from 1 to 5 and box Y contains five cards numbered from 6 to 10. A card is randomly drawn from each box. By using tabulation, find the probability that
- (a) the sum of the number on the cards are multiple of 5,
 - (b) the product of the number on the cards is a square number.
5. 40 citizens attend medical checkup in a hospital. It is found that the cholesterol index of eight of them exceed the standard. All the citizens need to stay in the hospital afterwards for further checkup.
- (a) If another citizen also attends the checkup, find the experimental probability that his/her cholesterol index exceeds the standard.
 - (b) If one more citizen whose cholesterol index exceeds the standard attends the medical checkup, and thus one citizen is randomly selected, find the probability that his/her cholesterol index exceeds the standard.

6. There are four railways between countries A and B. Christina goes to country A from country B and then returns to country B. She chooses the two paths each randomly. Find the probability that she goes to country A and returns to country B through different railways.

7. A box contains one red ball and one blue ball. Leo randomly draws a ball repeatedly from the box with replacement for three times. Find the probability that
- (a) **Harder** the blue ball is drawn for three times,
 - (b) **Harder** the blue ball is drawn for at most one time.

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M.C.

1. A card is randomly drawn from a pack of 52 playing cards. Find the probability that the card is not a 'Q'.

A. $\frac{1}{13}$

B. $\frac{51}{52}$

C. $\frac{12}{13}$

D. $\frac{1}{26}$

2. There are 5 pink balls, 4 blue balls and 7 yellow balls in a bag. If a ball is random drawn from the bag, what is the probability that the ball drawn is not pink?

A. $\frac{1}{4}$

B. $\frac{5}{16}$

C. $\frac{9}{16}$

D. $\frac{11}{16}$

3. A restaurant is open from 9 am to 9 pm. If Kris arrives at the restaurant randomly between 7 pm and 11 pm, what is the probability that the restaurant is out of business hours when Kris arrives?

A. $\frac{1}{3}$

B. $\frac{3}{4}$

C. $\frac{1}{2}$

D. $\frac{1}{6}$

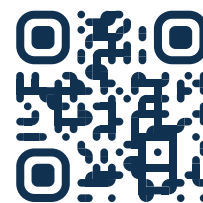
4. Which of the following can be the probability of an event?

A. $\frac{\pi}{2}$

B. $\frac{4}{3}$

C. $-\frac{1}{5}$

D. 0.10i



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