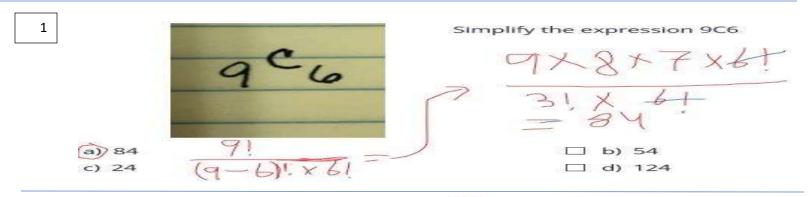
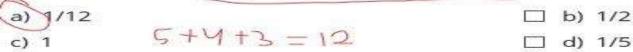
10 - 5-10 - 2-10 - 1-10 - 8-9 - 6-9 - 5-9) - 2 | المتحان المركزي \ 2 - 9-5 - 9-8 - 10-1 - 10 - 10-5 - 10 (Thursday - 11 \6 - TO - 12:00 - 12:30 - central exam) Review the central exam



Which is greater, 8C₃ or 8C₅? -56

There are 10 students in a class: 5 boys and 5 girls. If the teacher picks a group of 3 at random, what is the probability that everyone in the group is a girl?



- The outcome of one <u>event</u> does influence the outcome of the other event.

Color	Number of Times Landed
Red	6
Yellow Yellow	5
Blue	4
Green	10

5

Andrew picks one marble at a time from a box and replaces it. He repeats this process 25 times and records the results in the table. Based on the table, which color marble has an experimental probability of 1/5?

0.230	No. 10 10 10 10 10 10 10 10 10 10 10 10 10	
a) Yellow	5 1	☐ b) Red
c) Blue	25 5	☐ d) Green

10 - عام - مراجعة الامتحان المركزي \ 2 - (9-5 - 9-6 - 9-8 - 10-1 -10-2 - 10-5 - 10-6 -(Thursday - 11 \6 - TO - 12:00 - 12:30 - central exam) Review the central exam

6 What is the r value for choosing 5 cards from a standard deck of cards?

- a) 2
- c) 13

A basket contains 4 green marbles and 8 blue marbles. A 7 marble is drawn without replacement. Then another marble is drawn. What is the probability that both marbles willbe green? P(40-41) =

- a) 0.11

□ b) 0.61

- ch 0.09
- 13×11=0009
- ☐ d) 0.47

A box contains 5 purple marbles, 3 green marbles and 2 8 orange marbles. Draws are made without replacement. P(orange,green)

- a) 1/15

- □ b) 2/15
- □ d) 1/5

A ten sided die is rolled.

P (3 or 5)

9

11

- $\frac{1}{10} + \frac{1}{10} = \frac{2}{10} = \frac{1}{5}$ c) 1/10
 - - d) 25%

10 A box has 3 limes, 5 grapes, and 2 oranges.

P (NOT lime)

- a) 3/10
- c) 7/10

- d) Answer Not Here

There are 5 red roses, 3 yellow roses, and 8 white roses in a tray. If Stephanie picked 2 roses one after the other without replacing, then what is the probability of picking a white rose first and a red rose next?

- a) $\frac{1}{6}$ c) $\frac{1}{1}$ $\frac{8}{1}$ $\frac{5}{1}$ $\frac{5}{1}$ $\frac{7}{1}$
- □ b) 5/6
- □ d) 2/3

10 - عام - مراجعة الامتحان المركزي \ 2 - (9-5 - 9-6 - 9-8 - 10-1 -10-2 - 10-5 - 10-6 -(Thursday - 11 \6 - TO - 12:00 - 12:30 - central exam) Review the central exam

12	
	There are 2 violet balls and 4 pink balls in a bag. If two balls
	are drawn one after the other, then what is the probability
	of getting violet first and pink next, if the first ball drawn is

a) 1/3

D b) 2/9

c) 1/6

replaced?

the second roll?

テメゲーーの

☐ d) 1/4

13 What is the probability of rolling an even number on the first roll of a number cube and rolling an odd number on

a) 1/4

c) 1/8

Let A and B be independent events. If P(A) = 0.5 and P(B) =14 0.26, what is P(A and B)

> a) 0.52 c) 0.24

0.5 X 0.26 = 0-13

☐ (b) 0.13

☐ d) More information is needed to determine this value.

Assume the events A and B are independent events. If P(A and B) = 0.25 and P(A) = 0.4, what is P(B)?

a) 0.65

P(B)=0125-0625 00 0.625

c) 0.15

Which formula do you use when two events are NOT mutually exclusive?

a) P(A or B) = P(A) + P(B)

 \Box b) P(A or B) = P(A) + P(B) - P(both)

c) P(A and B) = P(A) * P(B)

☐ d) P (A and B) = P(A) * P(B | A)

17

16

15



A coin is tossed and a number cube is rolled. Find the probability, P(heads and 7).

37 Tel 20 60

a) 1/14

(c) 0

☐ b) 1/2

□ d) 1/7

10 - 5-10 - 2-10 - 1-10 - 8-9 - 6-9 - 5-9) - 2 | المتحان المركزي \ 2 - 9-5 - 9-8 - 10-1 - 10 - 10-5 - 10 (Thursday - 11 \6 - TO - 12:00 - 12:30 - central exam) Review the central exam

18	There are 5 red roses, 3 yellow roses, a tray. If Stephanie picked 2 roses one as replacing, then what is the probability rose first and a red rose next? (a) 1/6 (b) 1/3	fter the other without
19	There are 6 red marbles, 5 green mark marbles in a bag. If Joe picks 2 marbles without replacement, then what is the are red in color? a) 2/5 c) 4/25	one after the other
20	If A and B are mutually exclusive, which must be true?	statement below
	(a) P(A∩B) = 0	□ b) P(A B) = 0
	c) P(AUB) = 0	\Box d) P(A) + P(B) = 1
21	If A and B are independent, which statement a) $P(A \cap B) = 0$	t must be true?
		$\square \subseteq \square \cup $
		□ -1\ D(A\ + D(D) - 1
	c) P(AUB) = 0	☐ d) P(A) + P(B) = 1
22		ility of getting an even

□ b) 1/3

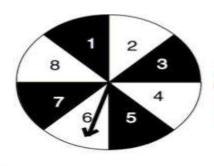
□ d) 1/6

(a) 2/3

c) 1/2

10 - 2-10 - 2-10 - 1-10 - 8-9 - 6-9 - 5-9) - 2 | المتحان المركزي \ 2 - 9-5 - 9-8 - 10-1 - 10-10 - 5-10 - 10-10 (Thursday - 11 \6 - TO - 12:00 - 12:30 - central exam) Review the central exam

24



(a) 4/8 + 4/8 - 2/8

c) 4/8 + 6/8 + 2/8

Which of the following shows how to determine P(shaded number or number less than five)?

A= 1/13/5/7/ 3P(A)= 46 B= 1/12/3/1/20181= 46 ANB = 1/1/3/20181= 46

□ b) 4/9 + 2/8 - 4/8

□ d) 2/8 + 4/8 - 4/8

25

A farm has 5 brown cows and 10 white cows. A fence is open and two cows escape. What is the probability that it will be a brown cow, then a white cow?

a) 5/15 + 10/14

c) 5/15 x 10/14

P(A = 55)

□ b) 5/15 x 4/15

☐ d) 5/15 x 10/15

26

	Steelers	Packers	Subtotal
Male	40	50	0
Female	35	25	66
Subtotal	75	75	150

a) 75/150 + 90/150 - 50/150

c) 50/150 + 40/150 + 25/150

Male)? P(A) B) = 150 P(A) = 150), P(B) = 150

□ b) 75/150 + 35/150 - 25/150

□ d) 90/150 + 50/150 - 75/150

27

A survey found that 19% of the population owned dogs, 14% owned cats, and 6% of the population owned both a cat and a dog? Find the probability that a person owns a cat or a dog.

a) 0.19 + 0.14 + 0.06

c) 0.06 + 0.14 - 0.19

□(b) 19/100 + 14/100 - 6/100

☐ d) 19/100 + 6/100 -14/100

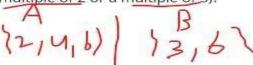
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a) 2/6 + 1/6 - 3/6

3/6 + 2/6 - 1/6

Which of the following shows how to determine when a die is rolled P(multiple of 2 or a multiple of 3)?



□ b) 4/6 + 2/6 - 1/6

□ d) 5/6 + 1/6 - 3/6