

REVIEW

Data, Statistics, and Probability

Read each problem. Circle the letter of the best answer.

- 1 It is not very likely that it will rain tomorrow. Which probability best describes this event?

A 0 C 0.5
B 0.1 D 1

- 2 From a random sample of 40 people at a banquet, 15 ordered the chicken dinner. If there are a total of 212 people at the banquet, about how many chicken dinners are ordered?

A 40 C 80
B 60 D 100

- 3 One card from set X is multiplied by one card from set Y.

Set X:

1	2	3
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 Set Y:

4	5	6
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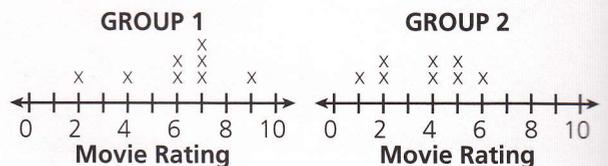
What is the sample space of all possible outcomes?

A {4, 5, 6}
B {5, 6, 7, 8, 9}
C {1, 2, 3, 4, 5, 6}
D {4, 5, 6, 8, 10, 12, 15, 18}

- 4 Miranda rolls a 1–6 number cube 60 times. Which best describes the experimental probability of the cube landing on 6 during these trials?

A exactly 6 times C exactly 10 times
B close to 6 times D close to 10 times

- 5 The line plots below show the ratings two different groups of people gave a new movie.



Which statement best describes these plots?

A The center and variability for group 1 are greater than for group 2.
B The center and variability for group 2 are greater than for group 1.
C The center for group 1 is greater and the variability for group 2 is greater.
D The center for group 2 is greater and the variability for group 1 is greater.

Read each problem. Write your answer.

- 6 Andre flips a fair coin 4 times. What is the probability that exactly 2 flips will result in heads and 2 flips will result in tails?

Answer _____

- 7 A spinner is divided into 12 equal sections and numbered 1–12. Emmanuel spins the arrow on the spinner. What is the probability that the arrow lands on a number less than 5?

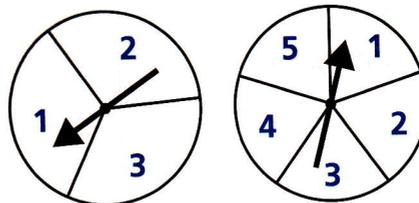
Answer _____

- 8 Sanjay recorded the number of days it was sunny last month. In the past 30 days, it was sunny 80% of the time. Sanjay concludes that it will be sunny 80% of the year. Is his conclusion reasonable? Explain.

- 9 Lydia rolled a 1–6 number cube 120 times and recorded the results in the table here. Is the theoretical probability of rolling a number divisible by 3 greater than, less than, or the same as the experimental probability? Explain.

Number	1	2	3	4	5	6
Number of Rolls	20	16	24	21	27	12

- 10 Each spinner below is divided into equal-sized sections. Paul will spin the arrow on each spinner once. What is the probability that an even number results both times?



Answer _____