

Data 2: Probability, Sample Space, Graphs

Long-Term Memory Review – Grade 6

Review 1

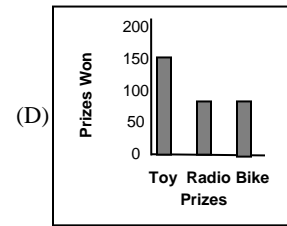
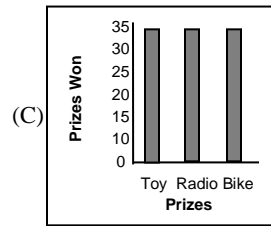
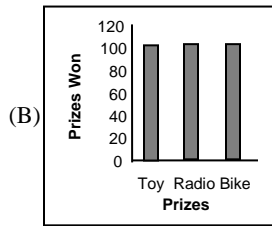
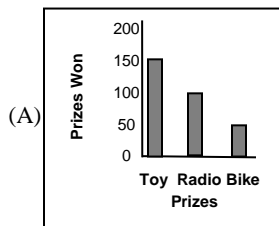
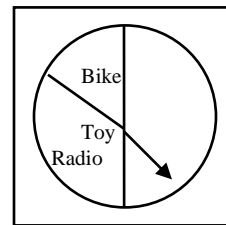
Word Bank: use these terms to fill in the blanks for Question 1. Words may be used once, more than once, or not at all.

probability sample space tree diagram

- The _____ of a random event describes the fraction or percentage of the time it occurs by chance.
A _____ is a list of all possible outcomes from a series of random events.

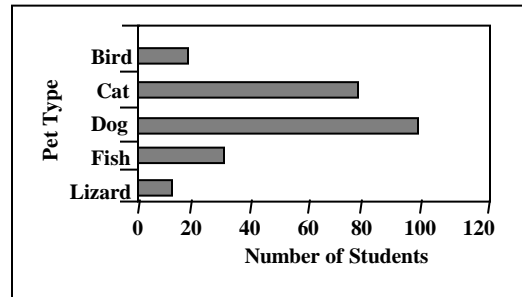
- At a certain store, shirts come in 2 styles: solid and striped. The shirts also come in 3 colors: red, white, and blue. Make a list of all possible types of shirts by style and color.

- At a carnival game, the result of a spinner determines the prize won. If the spinner at the right is spun 300 times, which graph best represents the correct theoretical number of times each of the prizes is won?

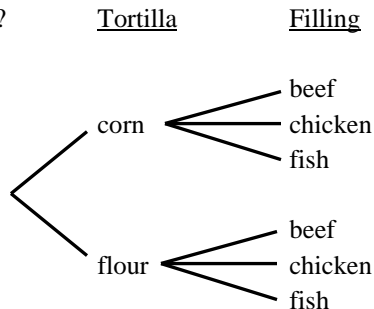


- The graph at right shows the number of each type of pet owned by a group of students.

- Which type is owned by most students?
- Which type is owned by the fewest students?



- The tree diagram below shows how tacos can be ordered at a restaurant. How many different types of tacos can be ordered?



- 3
- 5
- 6
- 8

Data 2: Probability, Sample Space, Graphs

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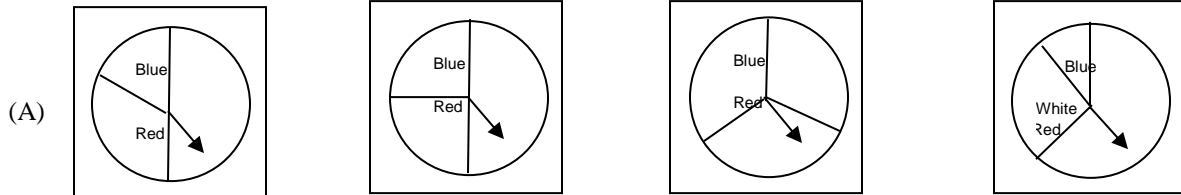
Review 1

Word Bank: use these terms to fill in the blanks for Question 1. Words may be used once, more than once, or not at all.

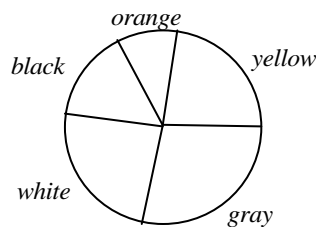
probability sample space tree diagram

- A _____ is a list of all possible outcomes from a series of random events. A _____ is a method to determine how many different ways a series of options can be selected or observed, usually by showing choices on several branches.
- A pizza shop offers the following choices for pizza:
 Crust: thick or thin Meat: pepperoni or sausage Vegetable: olives or mushrooms
 A pizza is made with one crust style, one meat, and one vegetable. Make a tree diagram to show all possible pizzas.

- In a box, there are 5 red balls, 3 white balls, and 2 blue balls. Which spinner below best represents the theoretical probabilities of drawing one ball from the box?



- The graph at right shows the colors of cats owned by a group of students.
 - Which color is most common?
 - Which color is least common?



- A coin is tossed twice. Which of the following represents the sample space of the two tosses?
 - $\{H, T\}$
 - $\{HH, HT, TT\}$
 - $\{HH, TT\}$
 - $\{HH, HT, TH, TT\}$

Data 2: Probability, Sample Space, Graphs

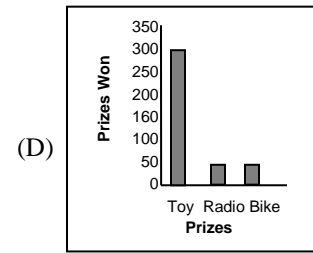
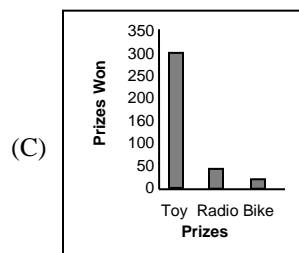
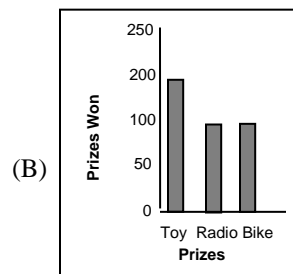
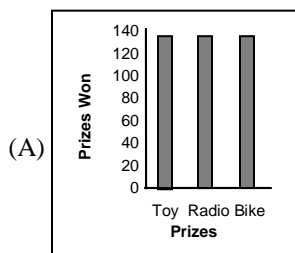
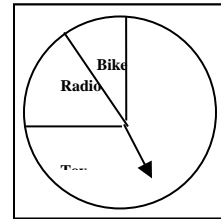
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Word Bank: use these terms to fill in the blanks for Question 1. Words may be used once, more than once, or not at all.

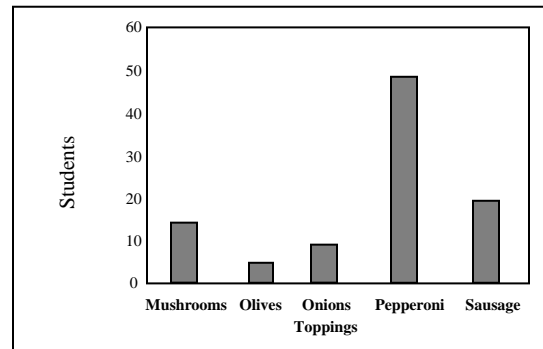
probability sample space tree diagram

- A _____ is a method to determine how many different ways a series of options can be selected or observed, usually by showing choices on several branches. The _____ of a random event describes the fraction or percentage of the time it occurs by chance.
- At a certain store, shirts come in 2 sleeve lengths: short and long. The shirts also come in 3 colors: green, yellow, and orange. Make a tree diagram to show all possible types of shirts by sleeve length and color.

- At a carnival game, the result of a spinner determines the prize won. If the spinner at the right is spun 400 times, which graph best represents the correct theoretical number of times each of the prizes is won?



- The graph at the right shows a group of students' favorite pizza toppings.
 - Which topping is preferred by most students?
 - Which topping is preferred by the fewest students?



- A box contains red balls and white balls. The probability of drawing a red ball is $\frac{2}{5}$. The probability of drawing a white ball is $\frac{3}{5}$. There are 10 balls in the box. How many balls of each color are in the box?

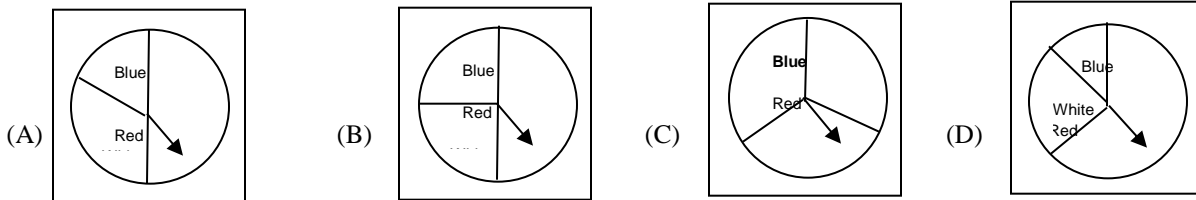
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Review 4

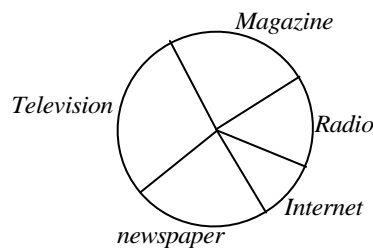
- The _____ of a random event describes the fraction or percentage of the time it occurs by chance. A _____ is a list of all possible outcomes from a series of random events. A _____ is a method to determine how many different ways a series of options can be selected or observed, usually by showing choices on several branches.
- A sandwich shop offers the following choices for sandwiches:
 Bread: white or wheat Meat: ham or turkey Cheese: cheddar or swiss
 A sandwich is made with one bread, one meat, and one cheese. Make a tree diagram to show all possible sandwiches.

- In a box, there are 10 red balls, 5 white balls, and 5 blue balls. Which spinner below represents the theoretical probabilities of drawing one ball from the box?



- The graph at right shows the primary way a group of adults gets their news.

- Which news source is most common?
- Which news source is least common?



- A box contains red balls and white balls. The probability of drawing a red ball is $\frac{3}{4}$. The probability of drawing a white ball is $\frac{1}{4}$. There are eight balls in the box. How many balls of each color are in the box?

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Quiz

- The _____ of a random event describes the fraction or percentage of the time it occurs by chance. A _____ is a list of all possible outcomes from a series of random events. A _____ is a method to determine how many different ways a series of options can be selected or observed, usually by showing choices on several branches.
- At a certain store, shirts comes in 3 styles: plain, striped, and plaid. The shirts also come in 3 colors: green, yellow, and orange. Make a list to show all possible types of shirts by style and color.

- An ice cream parlor offers the following choices for sundaes:

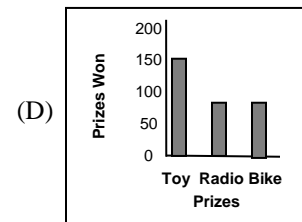
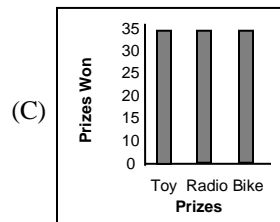
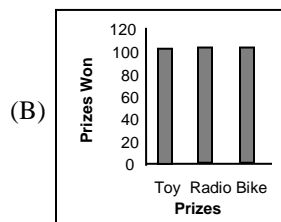
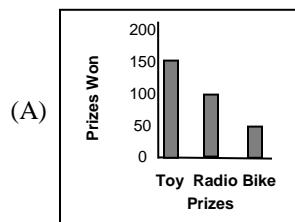
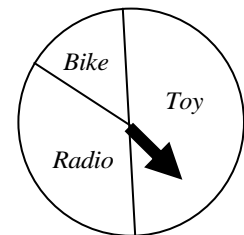
Ice cream: Vanilla or chocolate

Sauces: Fudge or butterscotch

Toppings: Nuts or sprinkles

A sundae is made from one flavor of ice cream, one sauce and one topping. Make a tree diagram to show all possible sundaes.

- At a carnival game, the result of a spinner determines the prize won. If the spinner at the right is spun 300 times, which graph best represents the correct theoretical number of times each of the prizes is won?



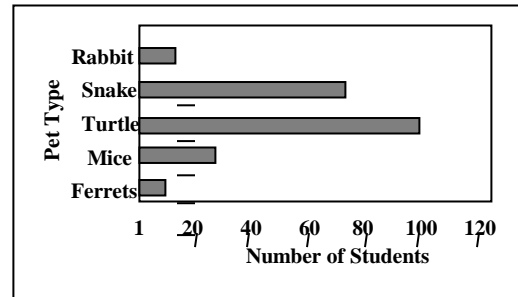
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5. The graph at right shows the number of each type of pet owned by a group of students.

(c) Which type is owned by most students?

(d) Which type is owned by the fewest students?



6. A box has 1 red ball, 1 white ball, and 1 blue ball. At the same time, two balls are drawn from the box. Which of the following is the sample space?

(A) $\{R, W, B\}$

(B) $\{RW, RB\}$

(C) $\{RW, RB, WB\}$

(D) $\{RR, WW, BB\}$

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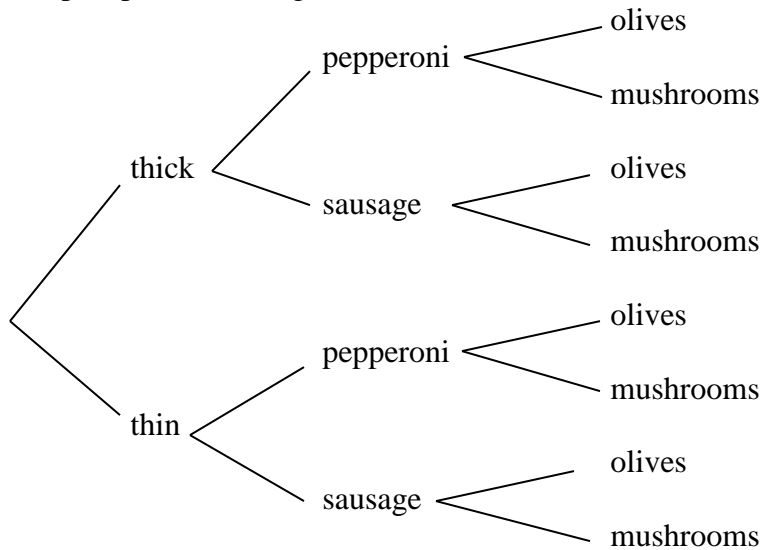
Answers

Review 1 Answers

- 1) probability; sample space
- 2) solid red
solid white
solid blue
striped red
striped white
striped blue
- 3) A
- 4) a) Dog
b) Lizard
- 5) C) 6

Review 2 Answers

- 1) sample space; tree diagram
- 2)



- 3) A
- 4) a) Gray
b) Orange
- 5) D

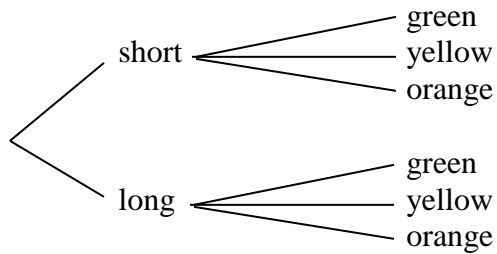
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Review 3 Answers

1) tree diagram: probability

2)



3) C

4) a) Pepperoni

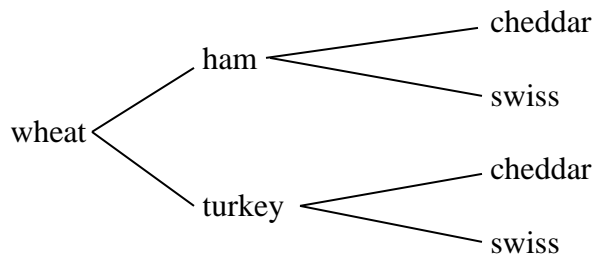
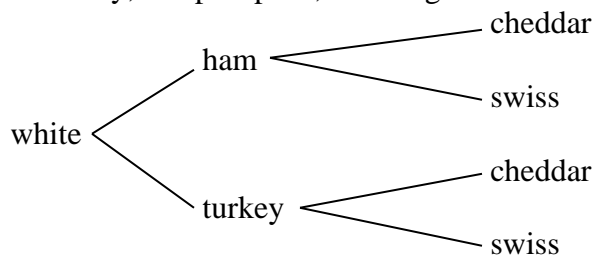
b) Olives

5) 4 red balls; 6 white balls

Review 4 Answers

1) probability; sample space; tree diagram

2)



3) B

4) a) Television

b) Internet

5) 6 red balls; 2 white balls

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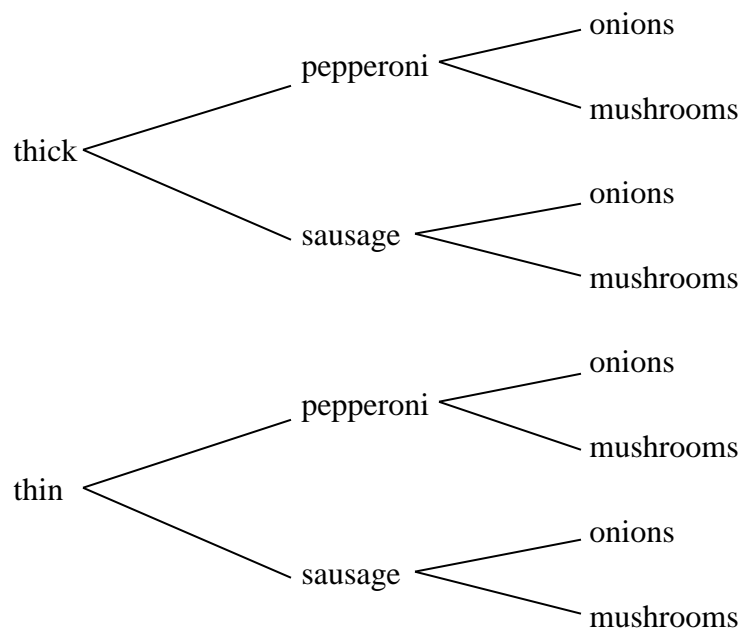
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Quiz Answers

1) probability; sample space; tree diagram

- 2) plain green
 plain yellow
 plain orange
 striped green
 striped yellow
 striped orange
 plaid green
 plaid yellow
 plaid orange

3)



4) A

5) a) Turtle

b) Ferrets

6) C