

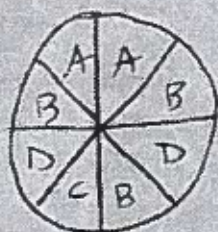
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Probability.

1. A bag contains 30 pieces of candy. There are 15 grape, 7 cherry, 3 lemon, and 5 strawberry. What is the probability of drawing a lemon?

2. $P(\text{not } A) =$



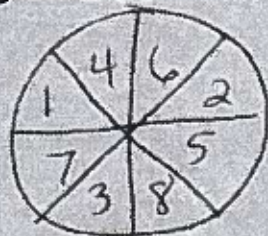
3. John has a bag of jelly beans. He removed a bean, recorded it, then replaced it. He repeated this process several times. The results are in the table. What is the experimental probability of him selecting a jelly bean?

Type	Frequency
Green	15
Red	11
Blue	18

4. A jar has 3 red marbles, 2 blue marbles, and 4 yellow marbles. What is the theoretical probability of pulling a red out of the jar?

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5. What is the probability of spinning the spinner TWICE, and landing on a 7?



6. What is the probability of rolling a 15 on a number cube is:

- A. Likely
- B. Unlikely
- C. Certain
- D. Equally likely

7. Experimental probability means:

- A. What will happen
- B. What actually happen
- C. What you think will happen
- D. What should happen

8. What is the probability of flipping a coin and it landing on heads?

9. A bag has 10 marbles: 3 blue, 2 yellow, 4 red, and 1 purple. What is the probability of picking a purple marble?

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10. A game involves conducting an experiment and gathering data to find the experimental probability of an event. What is a good first step for finding the experimental probability of an event?

- A. Make a square to show an area model and then divide the sections in equal sections.
- B. Determine the outcomes of the event and make a table to record results.
- C. Multiply the probability of the first event and the probability of the second event.
- D. Make a table to show results and divide the results in equal amounts according to the outcomes.

11. The game show host asks students to choose a marble at random. What is another way to describe the word random?

- A. To select based on the color most preferred
- B. To select all the marbles at one time
- C. To select the color of marbles least preferred
- D. To select with no regard to order or preference

12. A dartboard has 4 equal sections, of which 2 are orange. What is the probability that a dart will land in an orange section?

- A. $\frac{1}{2}$
- B. $\frac{2}{4}$
- C. 50%
- D. All of the above

12. An amusement park has 18 attractions, including 8 arcades.

What is the probability that a randomly selected attraction at this amusement park will be an arcade?

- A. $\frac{8}{18}$
- B. $\frac{4}{9}$
- C. 44%
- D. All of the above

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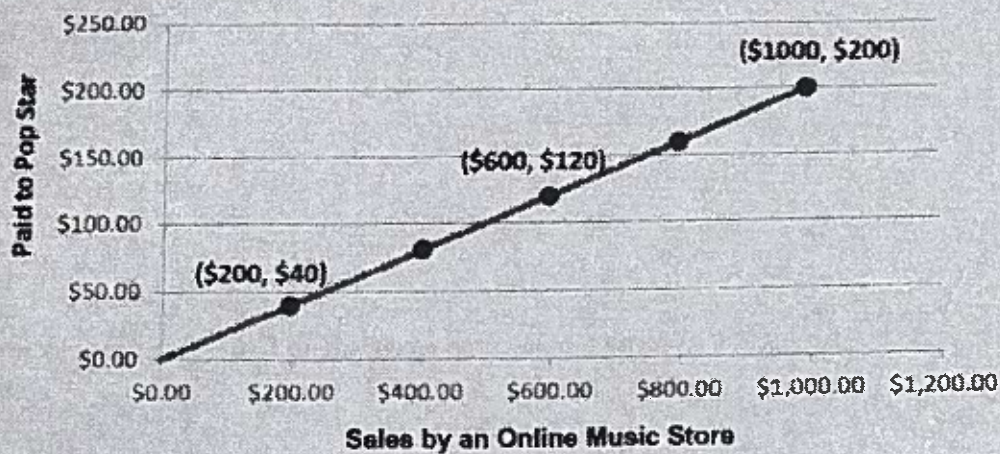
Date _____

1. Josiah and Tillery have new jobs at YumYum's Ice Cream Parlor. Josiah is Tillery's manager. In their first year, Josiah will be paid \$14 per hour, and Tillery will be paid \$7 per hour. They have been told that after every year with the company, they will each be given a raise of \$2 per hour. Is the relationship between Josiah's pay and Tillery's pay rate proportional? Explain your reasoning using a table.

2. A recent study claimed that in any given month, for every 5 text messages a boy sent or received, a girl sent or received 7 text messages. Is the relationship between the number of text messages sent or received by boys proportional to the number of text messages sent or received by girls? Explain your reasoning using a graph on the coordinate plane.

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3. When a song is sold by an online music store, the store takes some of the money, and the singer gets the rest. The graph below shows how much money a pop singer makes given the total amount of money brought in by one popular online music store from sales of the song.



- a. Identify the constant of proportionality between dollars earned by the pop singer and dollars brought in by sales of the song.
- b. Write an equation relating dollars earned by the pop singer, y , to dollars brought in by sales of the song, x .

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Lesson 11: Ratios of Fractions and Their Unit Rates

Exit Ticket

Which is the better buy? Show your work and explain your reasoning.

 $3\frac{1}{3}$ lb. of turkey for \$10.50 $2\frac{1}{2}$ lb. of turkey for \$6.25

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Name _____

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Lesson 12: Ratios of Fractions and Their Unit Rates**Exit Ticket**

If $3\frac{3}{4}$ lb. of candy cost \$20.25, how much would 1 lb. of candy cost?

Name _____

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Lesson 3: Identifying Proportional and Non-Proportional Relationships in Tables

Exit Ticket

The table below shows the price, in dollars, for the number of roses indicated.

Number of Roses	3	6	9	12	15
Price (Dollars)	9	18	27	36	45

1. Is the price proportional to the number of roses? How do you know?

2. Find the cost of purchasing 30 roses.

Name _____

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Lesson 4: Identifying Proportional and Non-Proportional Relationships in Tables

Exit Ticket

The table below shows the relationship between the side lengths of a regular octagon and its perimeter.

Side Lengths, s (inches)	Perimeter, P (inches)
1	8
2	16
3	24
4	32
9	
12	

Complete the table.

If Gabby wants to make a regular octagon with a side length of 20 inches using wire, how much wire does she need? Justify your reasoning with an explanation of whether perimeter is proportional to the side length.

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Lesson 7: Unit Rate as the Constant of Proportionality**Exit Ticket**

Susan and John are buying cold drinks for a neighborhood picnic. Each person is expected to drink one can of soda. Susan says that if you multiply the unit price for a can of soda by the number of people attending the picnic, you will be able to determine the total cost of the soda. John says that if you divide the cost of a 12-pack of soda by the number of sodas, you will determine the total cost of the sodas. Who is right, and why?