

MRS. ZORNES 7TH GRADE MATH ASSIGNMENTS



Some of the assignments will be from your book and you may write the answers and any necessary work on those pages. There are also assignments on Edulastic. If you do not have internet access, hopefully I have given you a paper copy to do those assignments. Also there are a couple of projects and you can do those on paper as well. Please remember to bring all work back when we return to school. You may use a calculator on these assignments.

DAY#1 PROBABILITY

- Be sure to write all answers in simplest(reduced) form. Some answers will be written as decimals or percents. This will help you to remember how to convert fractions to decimals to percentages.
- Page 714 #1-4
- Page 715 #1-4
- Page 716 #7-8
- Page 717#12-20

DAY#2 PROBABILITY

- Edulastic Finding Probability of Events Extra Practice 9 Problems
- Edulastic 1/10 version Finding Probability of Events 13 problems

DAY#3 PROBABILITY

- Edulastic 7th Grade Simple Event Probability Assessment 10 problems

DAYS #4 & 5 PROBABILITY PROJECT

- We have gone over theoretical and experimental probability. Using a deck of cards, m&m's, skittles, paper with various letters on it (you chose which one you want to do), solve for the theoretical probability of what should happen. Then drawing 20 times, find the experimental probability of it happening and compare the theoretical and experimental probabilities. Write each probability on your paper as a fraction in lowest terms. See if your experimental probability is close to the theoretical probability.

DAY#6 EXPRESSIONS

- Adding Linear Expressions. Remember you can only add things that are alike.
- Page 399 # 1-11
- Page 401 # 17-24
- Page 402 # 25-33

DAY#7 EXPRESSIONS

- Subtracting Linear Expressions. Remember you can only subtract things that are alike.
- Page 407 #1-9
- Page 408 #10-14
- Page 402 #15-25

DAYS #8,9,& 10 Become a Travel Expert

- You will research the cost of a family vacation. The activities are on page 183 in your book. There are 5 questions to answer. You show your results on paper and if you want you can print out the information you found to use and staple it to your work. The directions say to work with your group but since we are not in school you will be doing this on your own.

DAY#11 EQUATIONS & EXPRESSIONS

- 10 questions on Equations and Expressions on Google Classroom

DAY#12 SOLVING EQUATIONS

- Edulastic Solving Equations 16 problems

DAY #13 MATH WRITING ASSIGNMENT

- You are dining with your family at your favorite restaurant. You order three hamburgers with French fries at \$6.50 each, one Caesar salad at \$5.35, three iced teas at \$1.29 each, a lemonade at \$1.39, and four desserts at \$3.99 each. But when you receive your bill, you discover that you've been charged for an extra hamburger and an extra iced tea. Correct your bill to get an accurate total. Then write a comment to the restaurant manager, expressing your concern regarding the restaurant's overcharging ways and document how you corrected the error.

DAY#14 MATH WRITING ASSIGNMENT

- You are a math tutor for students at an elementary school. The teacher has asked you to help younger children understand the importance of math by connecting it to real-life situations. Think of three examples where multiplication is used in everyday life and write them out in reading problems for your students to solve in tutoring sessions.

DAY#15 MATH WRITING ASSIGNMENT

- Math computation occurs in most career fields. Choose a career field you are interested in and discuss three examples how math skills pertain to that career field.

Edulastic Name _____

1/10 version of 1/10 version of Finding Probability of Events Practice

Collection: Public

Created by Shannah Harrell

Day #2

Q1: Calculate the probability of obtaining each of the following die rolls using a standard die.

Die roll	$\frac{1}{2}$	$\frac{1}{6}$	$\frac{1}{3}$	0
A five				
An even number				
A four or a five				
A four and a five				

Q2: A bag contains 6 red candies and 14 blue candies.

A piece of candy is taken randomly from the bag.

What is the probability that it is a red candy?

$P(\text{red candy}) =$

Write the answer as a reduced fraction.

Q3: If the probability that it will rain tomorrow is $\frac{1}{5}$, what is the probability that it will not rain tomorrow?

A $\frac{4}{5}$

B $\frac{3}{5}$

C $\frac{2}{5}$

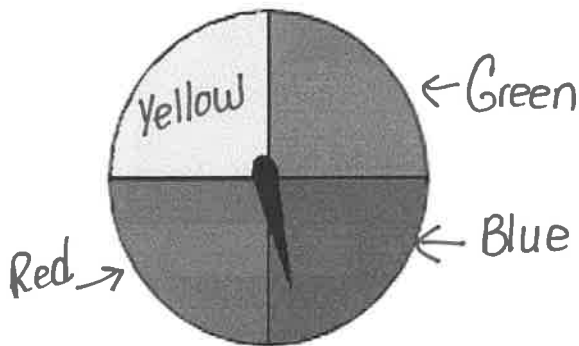
D $\frac{2}{10}$

Q4: A hat contains 3 blue and 5 black tickets.

If one ticket is chosen at random from the hat, **what is the probability that it is blue?**

- (A) $\frac{1}{2}$
 (B) $\frac{3}{5}$
 (C) 3
 (D) $\frac{3}{8}$

Q5: A spinner is divided into 4 equal portions colored red, blue, green and yellow.



If the spinner is spun, **find the probability that it lands on:**

Color	$\frac{1}{4}$	$\frac{1}{2}$	1	0
Red				
Green				
Blue or Yellow				
Blue and Yellow				

Q6: A bag of sweets contains 6 mints and 4 chocolates.

One sweet is taken at random from the bag.

What is the probability that it is a mint?

$P(\text{mint}) =$

Write your answer as a reduced fraction.

Q7: The probability that Scott will win his next tennis match is $\frac{3}{5}$.

What is the probability that he will **not** win?

Write the answer as a percentage

$$P(\text{not winning}) = \boxed{} \%$$

Q8: A bag contains 6 red, 9 blue and 8 white marbles. One marble is chosen at random from the bag.

Find the probability of each situation given below.

Marbles	$\frac{17}{23}$	$\frac{6}{23}$	$\frac{14}{23}$	$\frac{15}{23}$
P (red)				
P (not red)				
P (not blue)				
P (not white)				
P (blue or white)				

Q9: A number from 1 to 10 is selected at random.

What is the probability of each case listed below?

Cases	$\frac{1}{2}$	$\frac{3}{10}$	$\frac{4}{10}$
An even number			
Greater than 5			
An even number and greater than 5			
A multiple of 3			
A prime number			

Q10: When a normal six-sided die is rolled, **what is the probability of getting a 7?**

- (A) 0
- (B) $\frac{1}{2}$
- (C) $\frac{6}{7}$
- (D) $\frac{7}{6}$

Q11: A hat contains 3 red, 4 blue and 5 green tickets. If one ticket is chosen at random, **what is the probability that it is:**

Red	↔	<input type="text"/>
Blue	↔	<input type="text"/>
Red or blue	↔	<input type="text"/>
Green	↔	<input type="text"/>
Blue or green	↔	<input type="text"/>

ANSWER CHOICES

$\frac{1}{2}$
$\frac{3}{4}$
$\frac{1}{4}$
$\frac{5}{12}$
$\frac{1}{3}$
$\frac{2}{3}$
$\frac{7}{12}$

Q12: A spinner consists of pink, blue, and green sections.

When the spinner is spun, the probability that it will stop on blue is $\frac{1}{2}$ and the probability that it will stop on green is $\frac{1}{3}$.

Find the probability that it will stop on pink.

$$P(\text{pink}) = \boxed{}$$

Write your answer as a reduced fraction.

Q13: In a sampler box of candy there are 20 mints, 10 fudges and 20 toffees.

A sweet is taken at random from the packet.
What is the probability that it is fudge?

Write the answer as a percentage.

$$P(\text{fudge}) = \boxed{} \%$$

Edulastic Name _____

Finding Probability of Events Extra Practice

Collection: Public

Created by Mr. Jeffrey Fett

Day # 2

Q1: There are 16 girls and 8 boys in the local tennis club.

25% of the girls are left handed and 30% of the boys are left handed..

One member is chosen at random to enter a competition to represent the club.

What is the probability that a left handed girl is chosen ?

$P(\text{left handed girl}) =$

Note: Write your answer as a reduced fraction.

Q2: A package of gum contains 10 red sticks, 7 blue sticks, 8 green sticks and 5 orange sticks.

If a stick of gum is taken at random from the package, **what is the probability that it is:**

Stick of gum	$\frac{1}{3}$	$\frac{23}{30}$	$\frac{1}{6}$	$\frac{7}{30}$
Red				
Orange				
Not blue				

Q3: A grocery store has 12 cartons of yogurt for sale, of which 3 are raspberry.

What is the probability that a randomly selected carton of yogurt will be raspberry?

A $\frac{1}{2}$

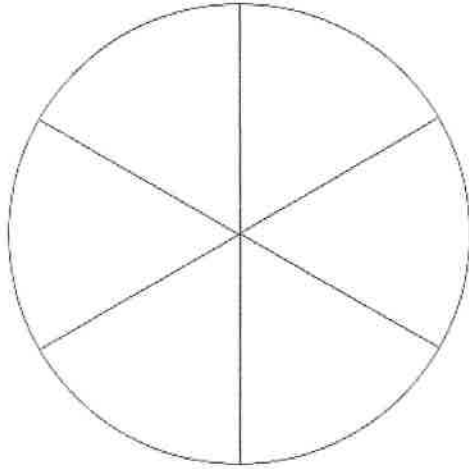
B $\frac{1}{4}$

C $\frac{1}{3}$

D $\frac{4}{5}$

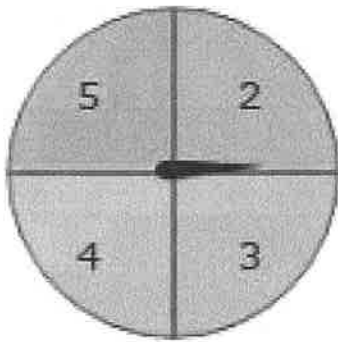
Q4: If you roll a die, what is the probability that the number you get is 5?

Shade the circle given below to represent the result.



Q5: You spin the spinner below once.

What is the $P(\text{getting a number less than 5})$?



A 1

B $\frac{3}{4}$

C $\frac{1}{2}$

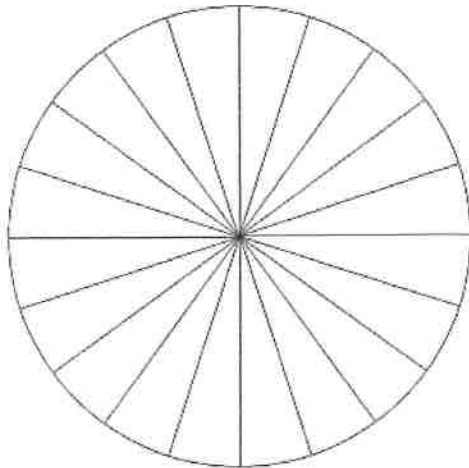
D 2

Q6: A bag contain 8 blue balls, 7 green balls and 5 red balls.

A ball is taken at random from the bag.

What is the probability that the ball is red?

Shade the circle given below according to the result.



Q7: Ten balls, each marked with a number from 0 to 9 are placed in a bag and two balls are taken out at random.

Find the probability that the sum of the numbers is 4 .

Write your answer as a percentage rounded to the nearest hundredth.

Answer: % chance

Q8: Three fair coins are tossed simultaneously.

Find the probability of getting at least two heads.

- A** $\frac{1}{5}$
 - B** $\frac{1}{2}$
 - C** $\frac{1}{8}$
 - D** $\frac{2}{5}$
-

Q9: Two die are rolled simultaneously.

Find the probability of getting a product of 6.

Answer:

a.

$2/5$

$1/9$

$1/36$

$1/6$

Edulastic Name _____

7th grade Simple Event Probability Assessment

Collection: Public

Created by Krystle Merry

Day #3

Q1: Leo drew a card from a stack that consists the following cards.

1	2	3	4	5	6
---	---	---	---	---	---

Consider the scenarios given in the first column and write the corresponding answer in the second column.

Note: Use slash (/) to separate the numerator and denominator.

Questions	Probability
Probability of drawing a card greater than 3 or less than 4.	<input type="text"/>
Probability of choosing a card of 5 or less than 5.	<input type="text"/>
Probability of choosing a card which is divisible by 4.	<input type="text"/>

Q2: A card is picked at random from the following set.

6	7	8	9
---	---	---	---

What is $P(9)$? Write your answer as a percentage in the box given below.

<input type="text"/>	%
----------------------	---

Q3: Gary randomly chose an item from the following lot:



Use this lot to match the questions in the first column with their corresponding answer.

Probability of choosing an ice-cream cone from the lot?	↔	<input type="text"/>
Probability of choosing a soccer ball from the lot?	↔	<input type="text"/>
Probability of choosing a book from the lot?	↔	<input type="text"/>
Probability of choosing a coin from the lot?	↔	<input type="text"/>

ANSWER CHOICES

$$\frac{5}{14}$$

$$\frac{3}{14}$$

$$\frac{1}{7}$$

$$\frac{2}{7}$$

Q4: On the last day of a Shakespeare class, an English teacher asked her students which play they liked most. Out of the 12 students, 3 liked *Hamlet* best. What is the probability that a randomly selected Shakespeare student likes *Hamlet* best? Write your answer as a simplified fraction.

Q5: A grocery store has 16 cartons of yogurt for sale, of which 8 are cherry. What is the probability that a randomly selected carton of yogurt will be cherry? Write your answer as a percent.

Q6:



You flip a coin.
What is $P(\text{heads})$?

a.

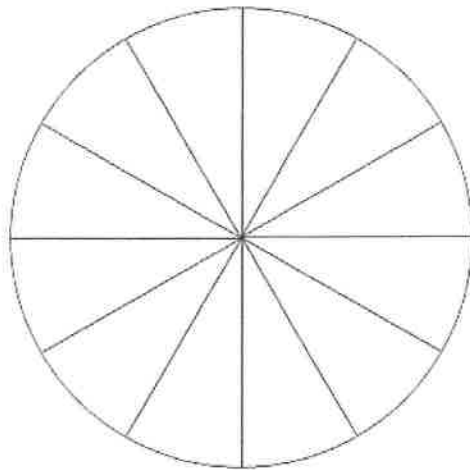
- 50%
- 25%
- 100%
- 75%

Q7: A bag contains 20 marbles, of which 4 are red. What is the probability that a randomly selected marble will be red?

Select ALL that apply.

- A** $1/5$
- B** $4/20$
- C** $2/10$
- D** $5/20$


Q8: Create a spinner that has a $P(\text{blue})$ that is equal to $3/4$ using the circle below.



Q9:

When a die is rolled, what is the probability that the result is less than 4? Leave your answer in fraction form.

Correct Answer

Q10:  Image result for drawstring bag for marbles Nancy pulled a number of colored balls from a bag and recorded the results.

blue	6
------	---

black	3
-------	---

red	2
-----	---

green	7
-------	---

Based on experimental probability, how many of the next 36 balls selected should you expect to be green?

- A** 13
 - B** 18
 - C** 14
 - D** 15
-

Edulastic Name _____

Solving Equations

Collection: Public

Created by Angie Scallion

Day # 12

Q1: Solve for x : $5x - 7 = 3$

Q2: What is the first step in solving this equation? $11 - 3x = 44$

- A add 3 to both sides
- B subtract 11 from both sides
- C add 11 to both sides
- D divide by 3 on one side
-

Q3: Solve $\frac{y}{2} + 22 = 38$ for y .

- A 16
- B 8
- C 32
- D 24
-

Q4: Solve for x : $2x - 3 = 5$

Q5: Solve for x : $-7x + 2 = 3$

Correct Answer

Q6: Solve for m .

$$18m - 13m = 25$$

$m =$

Q7: A baseball team ordered 12 jerseys. Each jersey costs the same amount. The shipping cost for the jerseys was \$3 and the total cost of the order was \$99. Which equation can be used to find the price p of each jersey?

A $\frac{3}{p} + 12 = 99$

B $3p + 12 = 99$

C $\frac{12}{p} + 3 = 99$

D $12p + 3 = 99$

Q8: Speedy Boat Rental charges a \$15 deposit fee plus \$2 for each hour of use to rent a paddle boat. Which equation shows how many hours, h , they rented the Boat if the total cost was \$33?

A $15h + 2 = 33$

B $15 - 2h = 33$

C $2h + 15 = 33$

D $33 + 2 + h = 33$

Q9: Natalie is a softball coach. She has a pitching private lesson with Kasey. Kasey's mom pays Natalie \$11 per hour plus a \$6 tip. Write an equation that represents this scenario if the total cost was \$39.

- A** $\$11h - \$6h = \$39$
 - B** $\$11h + \$6 = \$39$
 - C** $\$6 - \$11 = \$39$
 - D** $\$39h + \$11 = \$6$
-

Q10: Tammy takes a taxi home from the airport. The taxi fare is \$2.10 per mile, and she gives the driver a tip of \$5. Tammy pays a total of \$49.10. What equation shows how to find the distance (in miles) between Tammy's home and the airport?

- A** $\$2.10 + \$5 = \$49.10$
 - B** $\$5m + \$2.10 = \$49.10$
 - C** $\$49.10m + \$2.10 = \$5$
 - D** $\$2.10m + \$5 = \$49.10$
-

Q11: Shan won 40 super bouncy balls playing horseshoes at a game night. Later, she gave 2 to each of her friends. She only has 8 left. How many friends does she have? Define the correct variable and the correct equation.

- A** $n = \text{bouncy balls}; 2n + 40 = 8$
 - B** $n = \text{\# of friends}; 40 - 2n = 8$
 - C** $n = \text{\# of friends}; 2n - 8 = 40$
 - D** $n = \text{cost}; 2n + 8 = 40$
-

Q12: 331 students went on a 7th grade field trip. Six buses were filled and 7 students had to travel in cars. How many students were on each bus? (Define the variable and pick the correct equation)

- A** $b = \text{buses}; 6b + 7 = 331$
- B** $s = \text{students on buses}; 6b + 7 = 331$
- C** $s = \text{students in cars}; 6b + 7 = 331$
- D** $s = \text{students on trip}; 331 - 7 = 6b$
-

Q13: Solve; $-8(p - 4) = 96$

Q14: Solve: $2s + 15 + 3s = 65 - 5$

Q15: Stefanie bought a package of pencils for \$1.75 and some erasers that cost \$.25 each. She paid a total of \$4.25 for these items. Write the equation that shows how to find how many erasers she bought.

- A** $\$1.75e + \$.25e = \$4.25$
- B** $\$.25e + \$1.75 = \$4.25$
- C** $\$4.25 - \$.25e = \$1.75$
- D** $\$1.75 + e + \$.25 = \$4.25$
-

Q16: Stefanie bought a package of pencils for \$1.75 and some erasers that cost \$0.25 each. She paid a total of \$4.25 for these items, before tax

Exactly how many erasers did Stefanie buy?

Enter your answer in the box.

Equations/Expressions

1. Email address *

2. 1.) Which expression is equivalent to $(7m-5) - (3m-2)$

0 points

Mark only one oval.

- $10m - 7$
 $10m - 3$
 $4m - 7$
 $4m - 3$

3. 2.) The population of a city is increased by 7.5% next year. If p represents the current population, which expression represents the expected population next year?

0 points

Mark only one oval.

- $1.75p$
 $1.075p$
 $p + 0.075$
 $1 + 0.075$

4. 3.) For her cell phone plan, Cindy pays \$30 per month plus \$0.05 per text. She 0 points wants to keep her bill under \$60 per month. Which inequality represents the number of texts, t , Cindy can send each month while staying within her budget?

Mark only one oval.

- $t < 600$
 $t > 600$
 $t < 1800$
 $t > 1800$

5. 4.) $0.5x + 78.2 = 287$ solve for x 0 points

Mark only one oval.

- $x = 104.4$
 $x = 417.6$
 $x = 495.8$
 $x = 730.4$

6. 5.) Josh earns \$10.50 per hour working. On Friday he spent $1\frac{3}{4}$ hours cleaning, $2\frac{1}{3}$ hours doing paperwork, and $1\frac{5}{12}$ hours serving customers. 0 points What were Josh's earnings?

Mark only one oval.

- \$46.97
 \$47.25
 \$53.00
 \$57.75

7. 6.) The Browns won 16 games last year. This year they won 20 games. What is the percent of increase in the number of games the Browns won from last year to this year? 0 points

Mark only one oval.

- 20%
- 25%
- 80%
- 125%

8. 7.) Three classes at the middle school raised money to go on a field trip. Mrs. Arthur's class raised \$249.00. Mrs. Arden's class raised \$396.62 more than Mrs. Arthur's class. Mrs. Mullen's class raised \$430.43 less than Mrs. Arden's class. What is the total amount of money raised by all 3 classes? 0 points

Mark only one oval.

- \$215.19
- \$464.19
- \$1,076.05
- \$1,109.81

9. 8.) List the bases of the metric system. 0 points

10. 9.) When two ratios are equal they form a _____

0 points

Mark only one oval.

- fraction
- proportion
- equation
- inequality

11. 10.) What is the difference between an expression and an inequality?

0 points

Mark only one oval.

- An expression has an equal sign and an equation doesn't
- An equation has an inequality sign and an expression has an equal sign
- An equation has an equal sign and an expression doesn't
- They both have an equal sign

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