

Math isn't just for math class. It is used to solve problems in every subject. Help Mr. Hammond's class figure out their problems using math. Show your work

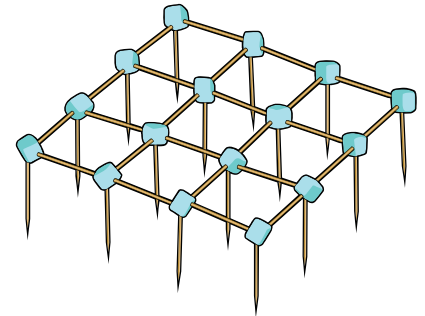
Henry wants to see how many different colored crayons are in the crayon box. If there here are 4 rows of 19 crayons, how many different colors are there?

Mikey is typing in the computer lab and typing at 23 words per minute. If he types for 11 minutes, how many words does he type?



All of the students have a vocabulary assignment every week with 13 new words. If the school year is 40 weeks long, how many new words will they learn?

Jeremy is building a toothpick skyscraper. Look at the picture below of the first floor. How many tooth picks will it take to build 12 stories? How many marshmallows will it take to build 12 stories?



It's the day before Valentine's Day and Shelley needs to get Valentine cards for all of her classmates. The desks are arranged in a rectangle 7 rows wide and 5 rows long. If there are 3 desks that are empty, how many students are in the class?

Solve the word problems. Show your work and circle your answers.

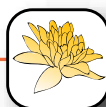
1. Erin and her brother Eli were planting a garden. They planted 312 zinnia seeds, 267 daisy seeds, and 137 geranium seeds. A week later, they found that 256 zinnias, 182 daisies and 64 geraniums had sprouted. How many of the seeds they planted did not sprout?



2. Erin opened 3 packets of flower seeds. Each packet contained 100 seeds. On her way out to the garden to plant them, Erin tripped and spilled 25 rose seeds, 32 mum seeds and 56 jasmine seeds. How many seeds did Erin have left altogether?

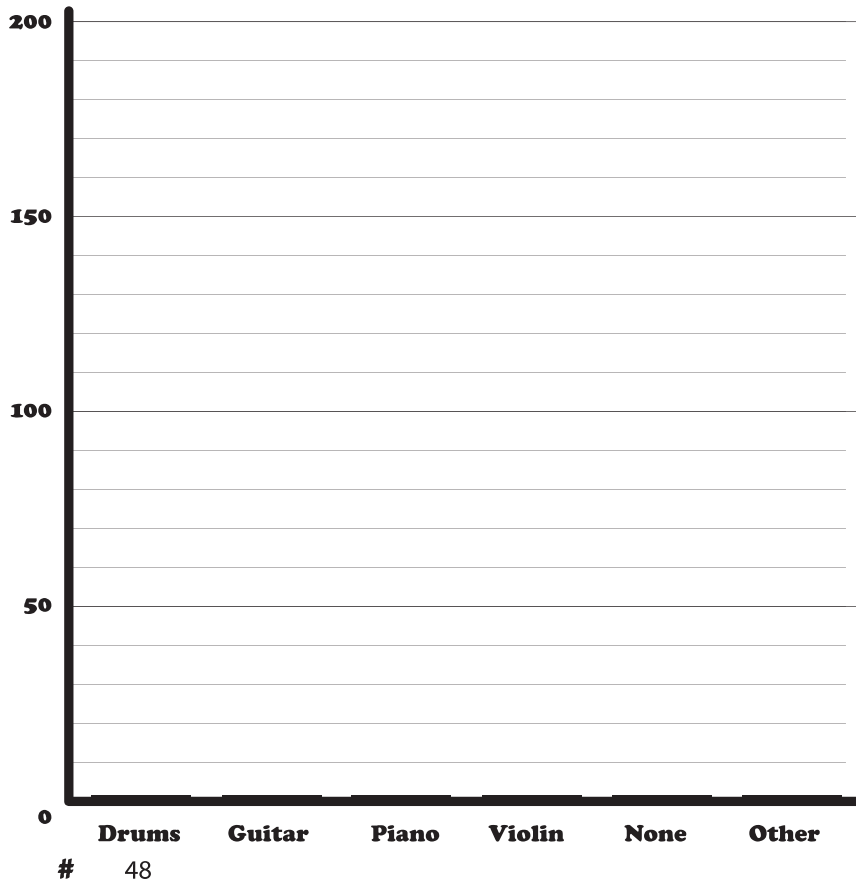
3. On Saturday, Eli planted 234 carrot seeds, 73 celery seeds and 121 potato seeds. On Sunday, he planted 168 rhubarb seeds and 265 leek seeds. On which day did Eli plant more seeds? How many more?

4. On Sunday morning, Erin had an hour and fifteen minutes before she had to leave the house to meet her friend Elena. Erin spent 32 minutes watering the garden and 26 minutes weeding. How many minutes did Erin have left before she had to leave to meet Elena?



Instrument Interviews

Isabela interviewed 600 students at her elementary school and asked them what musical instrument they play. The results of her interviews are displayed on the pie graph below. Convert the percentages to whole numbers and fill out the bar graph.



- Convert the data:
- 1. Convert each percentage to a decimal value by moving the decimal 2 places to the left.
Example: Drums = 8% → .08
- 2. Multiply the number of students interviewed by the decimal value of each percentage.

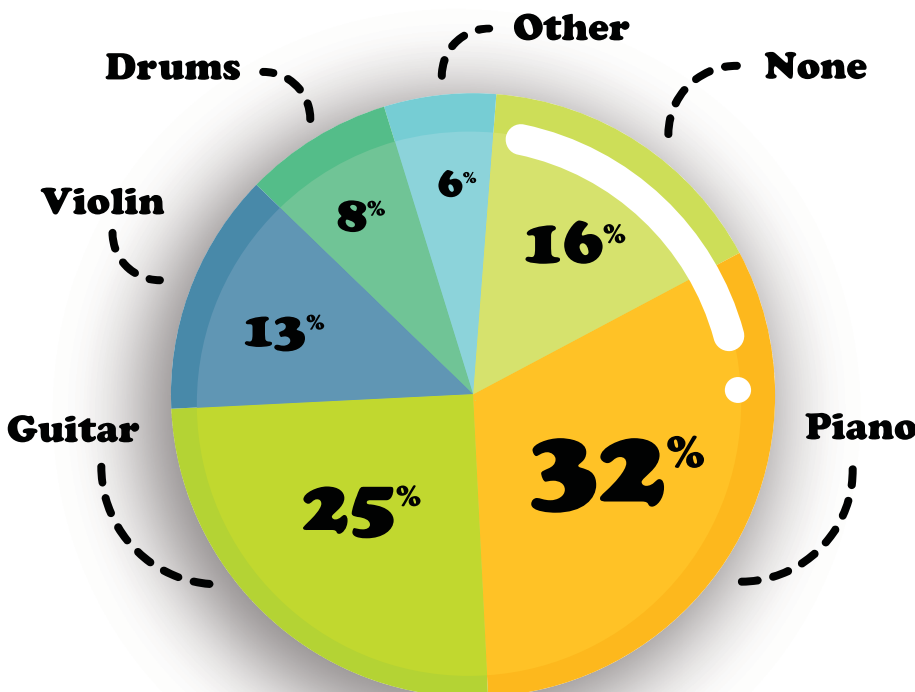
Example:

Drums =

$$\begin{array}{r}
 600 \rightarrow \text{Factor 1: 0 decimal places} \\
 \times \quad .08 \rightarrow \text{Factor 2: 2 decimal places} \\
 \hline
 48.00 \rightarrow 48 \text{ drummers}
 \end{array}$$

2 decimal moves

Don't forget to move the product's decimal point two places to the left.



★ Prize Wheel Probability ★

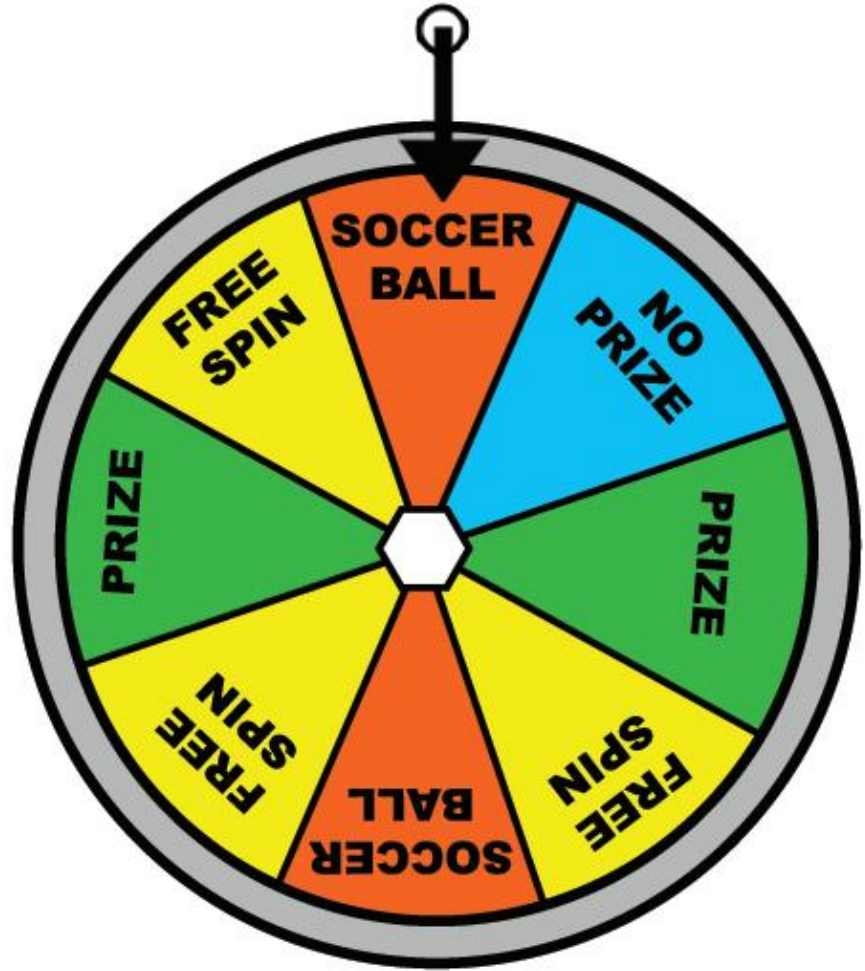
Answer the probability questions related to the prize wheel.

1. If you spin the wheel, what is the probability that the arrow will point to "soccer ball"?

2. What is the probability that the arrow will point to "no prize"?

3. What is the probability that the arrow will point to "free spin"?

4. What is the probability that the arrow will point to "prize"?



Solve the word problems. Show your work and circle your answers.



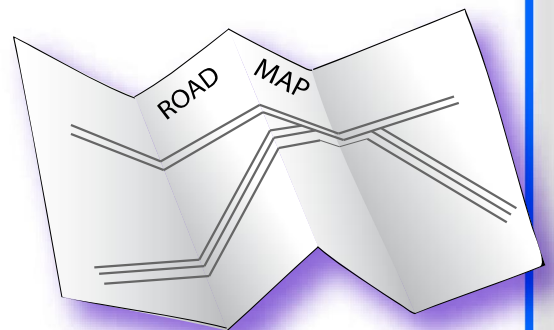
1. Joey and his family are taking a road trip. On Monday, they travel 68 miles. On Tuesday, they travel 25. On Wednesday, they travel 33 miles. What is the average number of miles they drove per day?



2. Joey has three brothers: Jonathan, Jacob, and Jack. Jacob is older than Jonathan but younger than Joey. Jack is younger than Jonathan. List the four boys in order from oldest to youngest.

3. Joey wants to figure out how many minutes his family has spent on the road. On Monday, they traveled for 3 hours. They drove for $1\frac{1}{2}$ hours on Tuesday and another $1\frac{1}{2}$ hours on Wednesday. How many minutes have they traveled in all?

4. Joey and his family plan to visit the Grand Canyon, Yellowstone National Park, and the Washington Monument. They will travel 1,323 miles to get to the Grand Canyon. From there, they'll drive 846 miles to Yellowstone. Finally, they will travel 2,166 miles to get to the Washington Monument. How many miles will they travel altogether?



Family Vacation Multiplication

The Smiths are going on a family vacation. Use multiplication, addition, and subtraction to solve the following problems. Perform other operations as needed to help find the answers. Show your work.

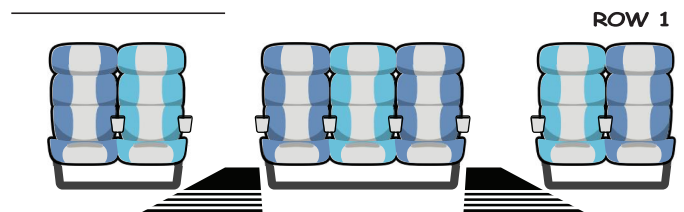
Driving to the airport, the Smiths needed to fill up on gasoline. Gasoline costs 3 dollars for one gallon. If their tank holds 16 gallons, and they already have 3 gallons filled, how much money will it cost to fill the car's tank completely?

The Smiths want to visit a museum and must pay to park. They are going to be gone for 4 hours. The price of parking is as follows:

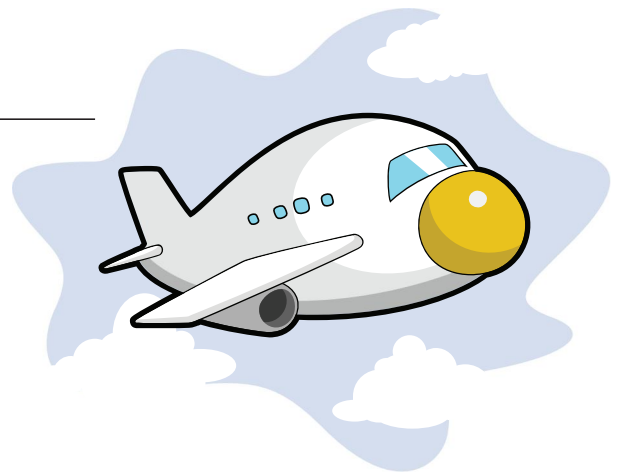
- 1 Quarter = 15 minutes
- 1 Dime = 5 minutes
- 1 Nickel = 2 minutes

The Smiths have 8 quarters, 12 dimes and 14 nickels. Do they have enough to park for 4 hours? (Remember: 60 minutes = 1 hour)

The Smiths board the airplane to head back home. The flight attendant wants to count how many passengers are on board. Every row consists of 2, 3, and 2 seats each (see picture below). If there are 51 horizontal rows, and 13 seats are empty, how many passengers are on board?

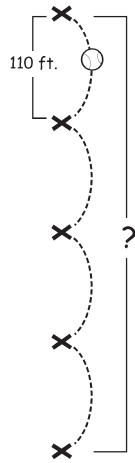


In total, the Smiths were flying in an airplane for 14 hours. If the airplane cruises at approximately 512 miles per hour, about how many miles did they travel all together?



Practice your multiplication skills by answering the following word problems. Show your work.

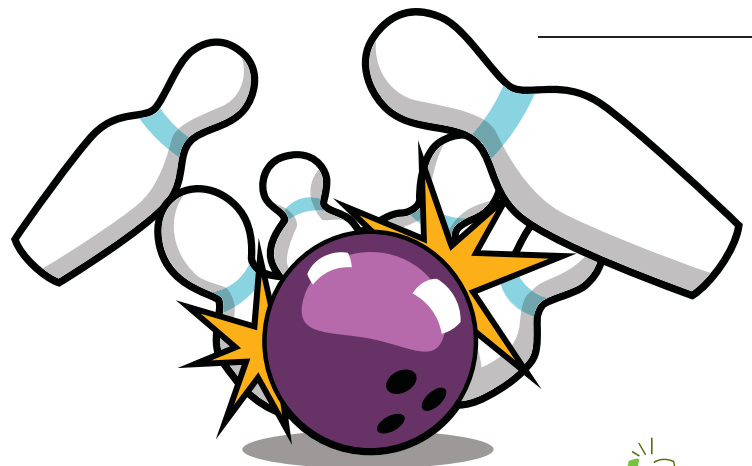
The Springfield Giants are practicing their relay throws. If there are 5 people in the relay and 110 feet between them, how far does the ball travel when it reaches the last player? Think about the number of throws it takes to make it to the end of the relay.



A football field is 100 yards long and 50 yards wide. What is the entire area of the field? If the end zone extends 10 yards beyond each goal line. What is the entire area including both end zones? Remember, Area = Length x Width.

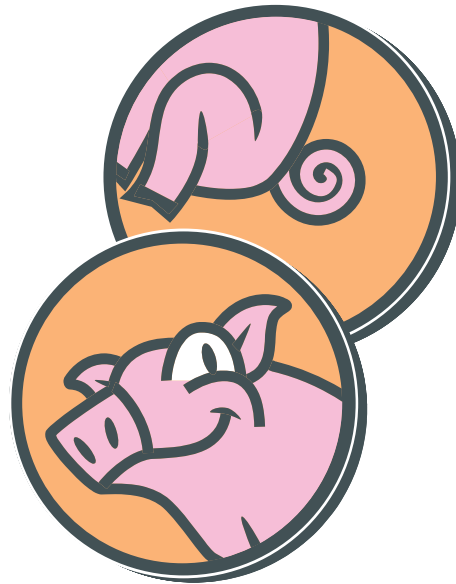
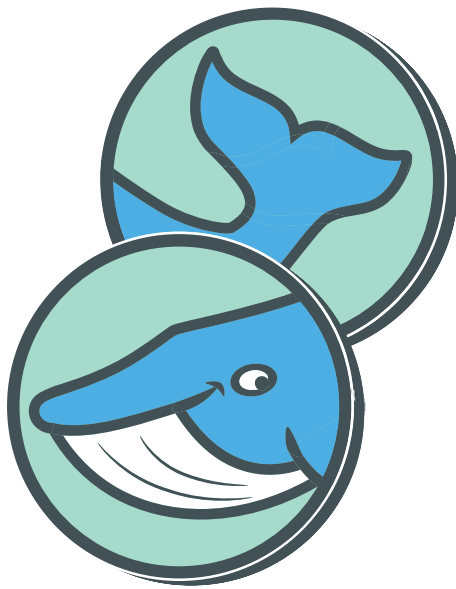
The Ladybugs basketball just finished another close game. They scored 12 3-point baskets, 17 2-point baskets, and 8 1-point baskets. If the other team scored 75 points, did the Ladybugs score enough to win?

Casey is practicing her bowling technique. She rolled 14 attempts. In 4 of them she knocked down 8 pins, in 3 she knocked down 9, and she knocked down all 10 in the rest. How many pins did she knock down in total?



Heads or Tails?

Complete the exercise below to find the probability that these coins will land heads or tails.



Write out the different combinations of heads and tails if all three coins are tossed at once. Then answer the questions.

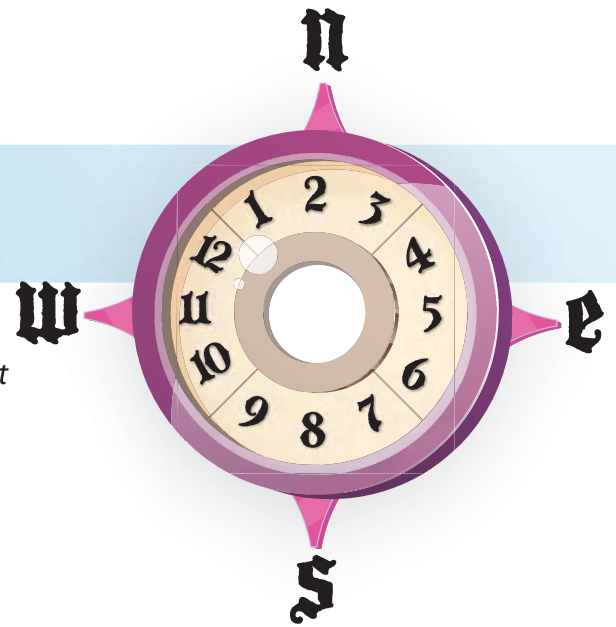
Remember: Probability is the likelihood an event will occur expressed as a fraction.

	Whale	Pig	Eagle
1	<u>Heads</u>	<u>Heads</u>	<u>Heads</u>
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____
6	_____	_____	_____
7	_____	_____	_____
8	_____	_____	_____

- What is the probability that two of the coins will land heads?
- What is the probability that at least one coin lands tails up?
- What is the probability that the whale coin lands heads up?
- What is the probability that the whale lands heads, the pig coin lands tails, and the eagle coin lands heads?



Steer & Simplify #3



Navigate the treacherous seas by simplifying the following fractions. Use the compass on the right to guide you. Start at the red arrow and go north, south, east or west to the next square with each fraction you reduce. Draw a line to track your journey. Show your work.

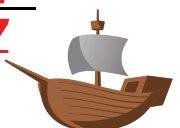
Compass Instructions: Once you reduce a fraction completely, look at its denominator and then find that number on the compass and move in the direction it points.

$$\frac{15}{40} = \frac{\quad}{\quad}$$

$$\frac{27}{90} = \frac{\quad}{\quad}$$

$$\frac{5}{60} = \frac{\quad}{\quad}$$

$$\frac{12}{42} \begin{matrix} \div 6 \\ \div 6 \end{matrix} = \frac{2}{7}$$



$$\frac{12}{30} = \frac{\quad}{\quad}$$

$$\frac{27}{72} = \frac{\quad}{\quad}$$

$$\frac{8}{16} = \frac{\quad}{\quad}$$

$$\frac{7}{63} = \frac{\quad}{\quad}$$



$$\frac{2}{16} = \frac{\quad}{\quad}$$

$$\frac{30}{55} = \frac{\quad}{\quad}$$

$$\frac{7}{14} = \frac{\quad}{\quad}$$

$$\frac{15}{24} = \frac{\quad}{\quad}$$

$$\frac{11}{55} = \frac{\quad}{\quad}$$

$$\frac{12}{54} = \frac{\quad}{\quad}$$

$$\frac{8}{12} = \frac{\quad}{\quad}$$

$$\frac{49}{70} = \frac{\quad}{\quad}$$