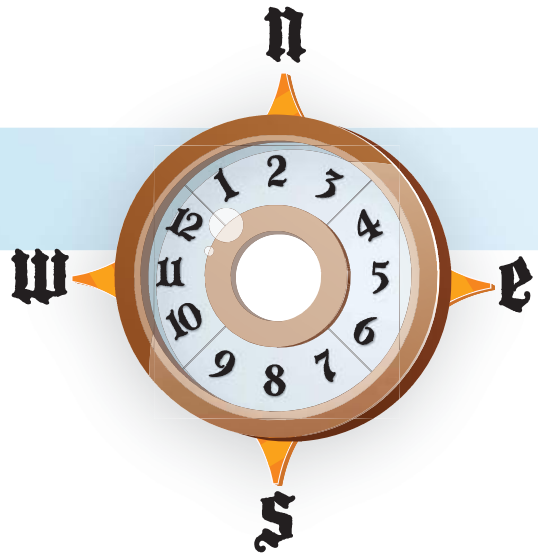# Answer Sheet

MATH
FRACTIONS

Steer & Simplify #1

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 your 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.*
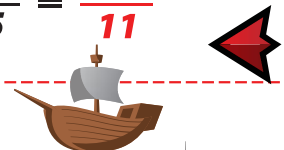
$$\frac{9}{54} = \frac{1}{6} \qquad \frac{6}{15} = \frac{2}{5} \qquad \frac{6}{8} = \frac{3}{4} \qquad \frac{27}{45} = \frac{3}{5}$$

$$\frac{16}{24} = \frac{2}{3} \qquad \frac{24}{27} = \frac{8}{9} \qquad \frac{35}{84} = \frac{5}{12} \qquad \frac{18}{60} = \frac{3}{10}$$

$$\frac{15}{30} = \frac{1}{2} \qquad \frac{5}{40} = \frac{1}{8} \qquad \frac{32}{40} = \frac{4}{5} \qquad \frac{4}{6} = \frac{2}{3}$$

$$\frac{9}{18} = \frac{1}{2} \qquad \frac{28}{40} = \frac{7}{10} \qquad \frac{9}{27} = \frac{1}{3} \qquad \frac{40}{55} = \frac{8}{11}$$

11 is between 9 and 12, so go west

Probability

Answer the probability questions regarding the worms the chicken will eat.

1. What is the probability the chicken will catch a blue worm?

2 out of 11

2. What is the probability the chicken will catch a green worm?

5 out of 11

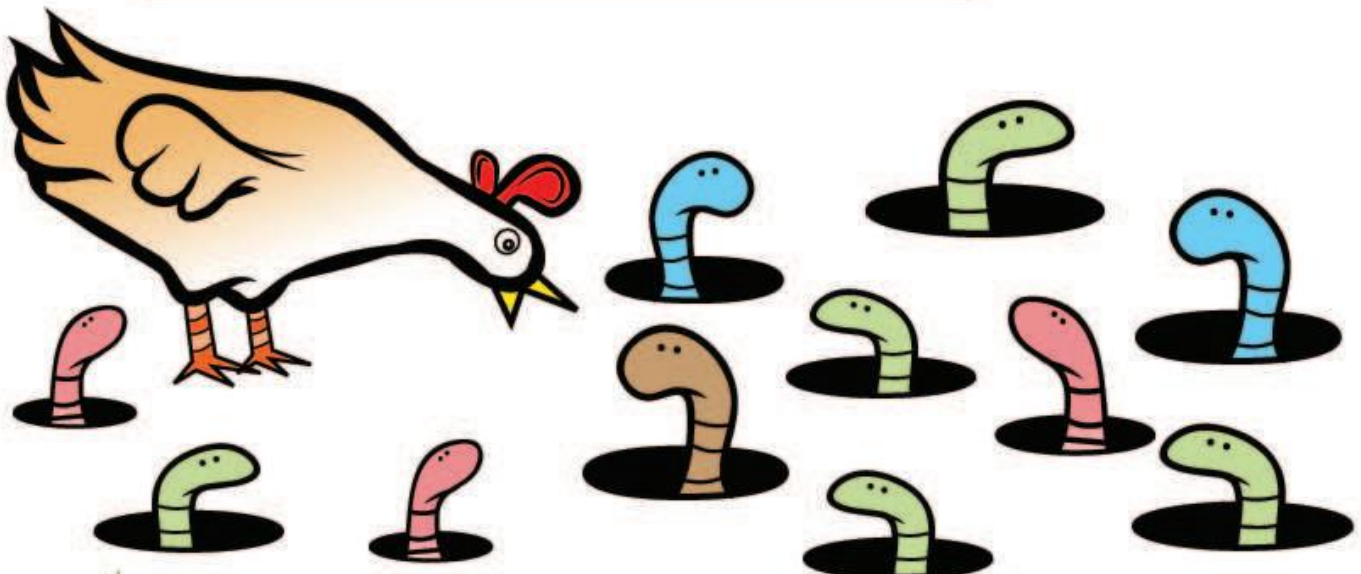**3.** Which worm is the least likely to get caught by the chicken?

The brown worm, because there's only one

4. What would the probability of the chicken getting a blue worm be if we added 3 more blue worms?

5 out of 14

5. What would the probability of the chicken getting a brown worm be if we added 2 more brown worms?

3 out of 13

DIVISION
WORD PROBLEMS

1.   Billy receives $15 every month for allowance. He puts $7 of his allowance into a piggy bank until his piggy bank has $119. How many months has he been saving part of his allowance?

119 (amount saved) ÷ 7 (amount left from his allowance) = 17 months

It took Billy 17 months to save up $119 in his piggy pank.

2.   Miss Amy collected $6 each from her students for their upcoming field trip. If all of her students went on the field trip she would collect $192. How many students are in Miss Amy's class?

192 (total collected money) ÷ 6 (collected per student) = 32 students

There are 32 students in Miss Amy's class.

3.   Mr. Chong is also planning for his class to go on the same trip. He collects $6 from each of his students too, but one of his students could only pay $3 making his total $219. How many students are in his class?

219 (total collected money) + 3 (the missing due from one student) = 222
222 ÷ 6 (collected per student) = 37 students

There are 37 students in Mr. Chong's class.

4.   Kari gets $20 every week for lunch money. She sets aside $2 every school day. How many weeks did it take for her to save up $65?

$2 (allowance saved) x 5 (# school lunch days) = $10 (allowance saved in a week)
$65 (total saved) ÷ $10 (allowance saved in a week) = 6.5 weeks round up to 7

It took her 7 weeks to save 65 dollars.

5.   Susan is selling raffle tickets for $4. She collects a total of $284. How many tickets did she sell?

$284 (collected total) ÷ $4 (price per raffle ticket) = 71 (tickets sold)

Susan sold 71 tickets.

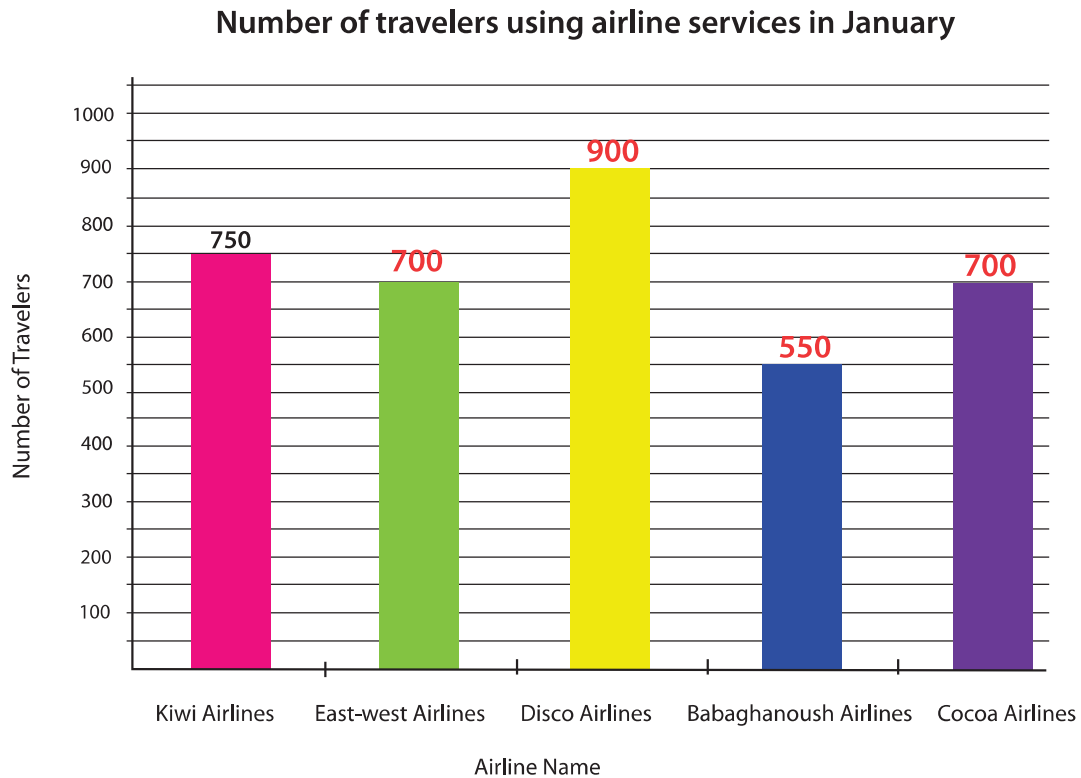More worksheets at www.education.com/worksheets

Answer Sheet

Go Abroad!: Practice Reading a Bar Graph 4th Grade

Read the records of travelers using airline services. Then answer the questions below. Show your work.

Number of travelers using airline services in January

1. What unit of measurement is used to express the airlines' popularity?

   Number of travelers

2. Write a number at the end of each bar to indicate the number of travelers in each airline.

3. Are there any two airlines that have the same number of travelers? What are they?

   East - west Airlines and Cocoa Airlines

4. If East-west Airlines had 250 more travelers, what rank would the Kiwi Airlines be?

   Number 3

5. How many more travelers does the Babaghanoush airline need to be the top airline among these five?

   351 more travelers

More worksheets at www.education.com/worksheets

Answer Sheet

Classroom Math: Multiplication Word Problems

4th Grade

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?

$$\begin{array}{r} 19 \\ \times\ 4 \\ \hline 76 \end{array}$$

76 crayons

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?

$$\begin{array}{r} 23 \\ \times\ 11 \\ \hline 23 \\ +\ 230 \\ \hline 253 \end{array}$$

253 words

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?
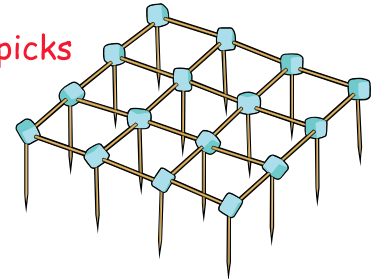
$$\begin{array}{r} 40 \\ \times\ 13 \\ \hline 120 \\ +\ 400 \\ \hline 520 \end{array}$$

520 words

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?

$$\begin{array}{r} 40 \\ \times\ 12 \\ \hline 80 \\ +\ 400 \\ \hline 480 \end{array}$$

480 toothpicks

$$\begin{array}{r} 16 \\ \times\ 12 \\ \hline 32 \\ +\ 160 \\ \hline 192 \end{array}$$

192 marshmallows

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?

$$\begin{array}{r} 7 \\ \times\ 5 \\ \hline 35 \end{array}$$

35 − 3 = 32

32 students

Answer Sheet

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?

$$
\begin{array}{r} 312 \\ 267 \\ + 137 \\ \hline 716 \end{array}
\qquad
\begin{array}{r} 256 \\ 182 \\ + 64 \\ \hline 502 \end{array}
\qquad
\begin{array}{r} 716 \\ + 502 \\ \hline 214 \end{array}
$$

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?

$$
\begin{array}{r} 100 \\ \times \quad 3 \\ \hline 300 \end{array}
\qquad
\begin{array}{r} 25 \\ 32 \\ + 56 \\ \hline 113 \end{array}
\qquad
\begin{array}{r} 300 \\ - 113 \\ \hline 187 \end{array}
$$

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?

$$
\begin{array}{r} 234 \\ 73 \\ + 121 \\ \hline 428 \end{array}
\qquad
\begin{array}{r} 168 \\ + 265 \\ \hline 433 \end{array}
\qquad
\begin{array}{r} 433 \\ - 428 \\ \hline 5 \end{array}
$$

On Sunday,
Eli planted
5 more seeds

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?

1 hour and 15 minutes
= 75 minutes

$$
\begin{array}{r} 32 \\ + 26 \\ \hline 58 \end{array}
\qquad
\begin{array}{r} 75 \\ - 58 \\ \hline 17 \end{array}
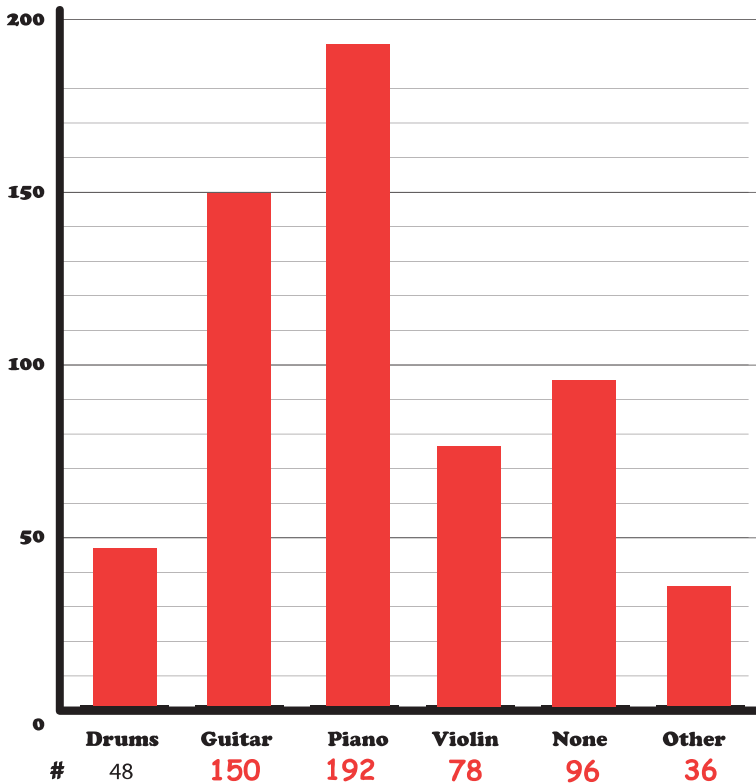$$

Answer Sheet

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.

#	Drums	Guitar	Piano	Violin	None	Other
	48	150	192	78	96	36

Convert the data:

1. Convert each percentage to a decimal value by moving the decimal 2 places to the left.
Example: Drums = 8% → .08

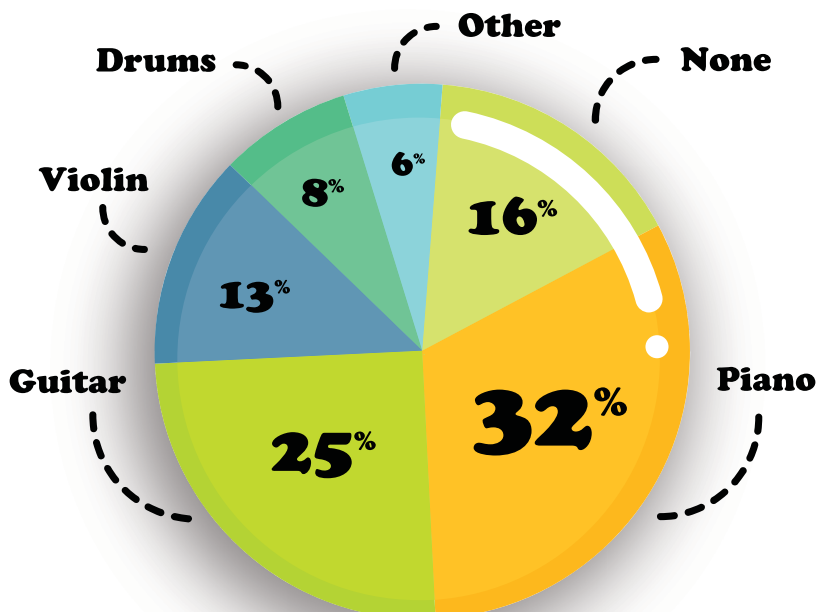**2.** Multiply the number of students interviewed by the decimal value of each percentage.

Example:
Drums =

    600 → Factor 1: 0 decimal places
  x   .08 → Factor 2: 2 decimal places
  ─────
   48.00 → 48 drummers

          2 decimal moves

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

Violin =
    600
  x .13
  ─────
   1800
 + 6000
  ─────
  78.00

Guitar =
    600
  x .25
  ─────
   3000
 + 12000
  ─────
  150.00

Piano =
    600
  x .32
  ─────
   1200
 + 18000
  ─────
  192.00

None =
    600
  x .16
  ─────
   3600
 + 6000
  ─────
  96.00

Other =
    600
  x .06
  ─────
  36.00

⭐ 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 out of 8

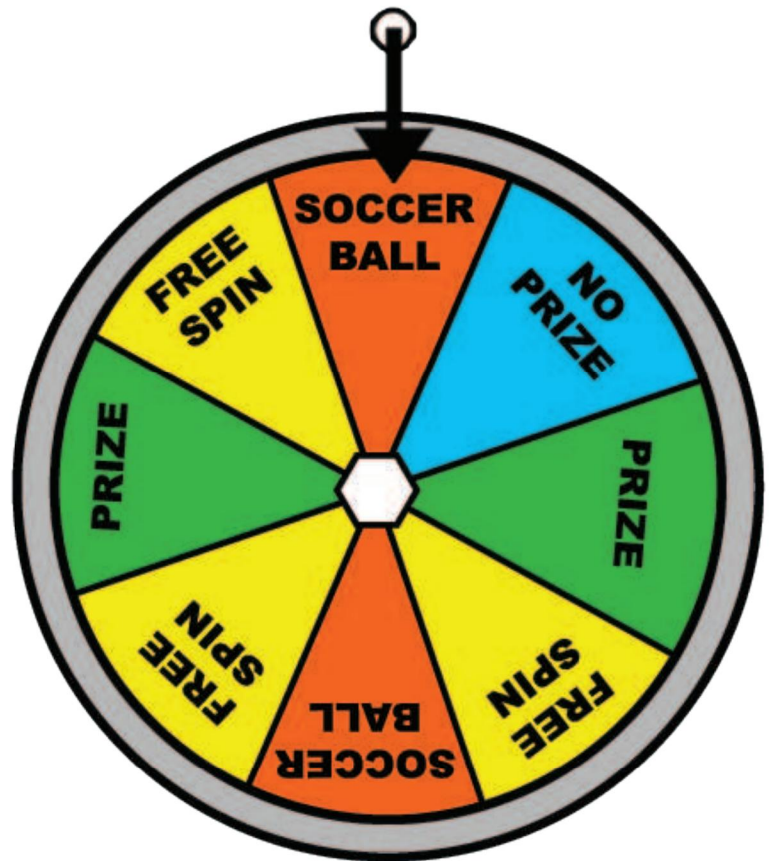**2.** What is the probability that the arrow will point to "no prize"?

1 out of 8

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

3 out of 8

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

2 out of 8

Answer Sheet

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?

beep

```
  68
  25
+ 33
-----
 126
```

$$3 \overline{)126} = 42$$

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.

Joey
Jacob
Jonathan
Jack

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 1/2 hours on Tuesday and another 1 1/2 hours on Wednesday. How many minutes have they traveled in all?

3 hours + 1 1/2 hours + 1 1/2 hours
= 6 hours

```
   60 minutes
x   6 hours
-----------
  360 minutes
```

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?

```
  1,323
    846
+ 2,166
-------
  4,335
```

ROAD MAP

N