MULTIPLICATION
WORD PROBLEMS

1.   Bennet saves $.75 from his lunch money every day. If he saves for 12 weeks how much money will he have?

2.   Mr. Hansen buys a cupcake for each student in his class for the class party. Each cupcake costs $1.25. However there is a discount where each batch of 10 cupcakes are only $1. He buys 34 cupcakes. How much did Mr. Hanson pay for all 34 cupcakes?

3.   Emi buys 15 baskets of strawberries to share with her class. Each basket has 12 strawberries. How many strawberries does she have to share with the class?

Each basket costs $ 2.25. How much did Emi spend on strawberries?

4.   Timothy mows his neighbor's lawn for $6.50 per week. He continues to do this for 37 weeks until winter. In winter he shovels snow off their lawn for $10.25 per week for 25 weeks. How much money did Timothy earn in total?

5.   Clara buys a cake($25), 25 cupcakes($.75/ea) and 42 cookies($.50/ea) for her birthday party. How much did Clara spend for all these desserts?
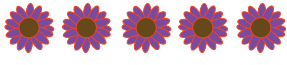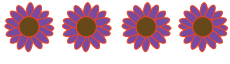
Flower Nursery: Reading a Pictograph

These two pictographs are comparing two types of flowers imported from Europe. Answer the questions below using information from the pictographs.
Note: each tulip in the pictograph stands for 1,000 tulips. Each daisy in the pictograph stands for 1,200 daisies.

Country	Number of Tulips Imported
Holland	🌷🌷🌷🌷🌷🌷🌷
France	🌷🌷🌷🌷🌷🌷
Denmark	🌷🌷🌷🌷🌷🌷🌷🌷
Italy	🌷🌷🌷🌷🌷

Country	Number of Daisies Imported
Holland	🌼🌼🌼🌼🌼
France	🌼🌼🌼🌼
Denmark	🌼🌼🌼
Italy	🌼🌼🌼🌼🌼

🌷 = 1,000   🌼 = 1,200
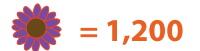
Questions:

1. How many tulips did Holland and France import?

Answer: _____

2. How many daisies did Holland and Italy import?

Answer: _____

3. What country imported the same amount of tulips and daisies?

Answer: _____

4. Write the countries that imported the most flowers to the least flowers, in order.

Answer: _____

5. If Denmark wants to import 3,000 more daisies, how many 🌼 would you draw in the table above?

Answer: _____

Bird Probability

Answer the probability questions regarding the birds hanging out.

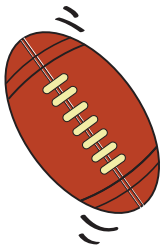1. Based on the number of birds, which bird is most likely to fly away first?

   _____

2. Which bird is the least likely to fly away?

   _____

3. What is the probability of a yellow bird flying away?

   _____

4. What are the chances that a green bird will fly away?

   _____

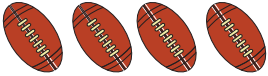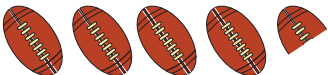5. Would it be more likely for a green or yellow bird to fly away first? Explain your answer.
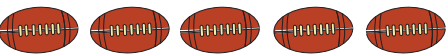
   _____

   _____
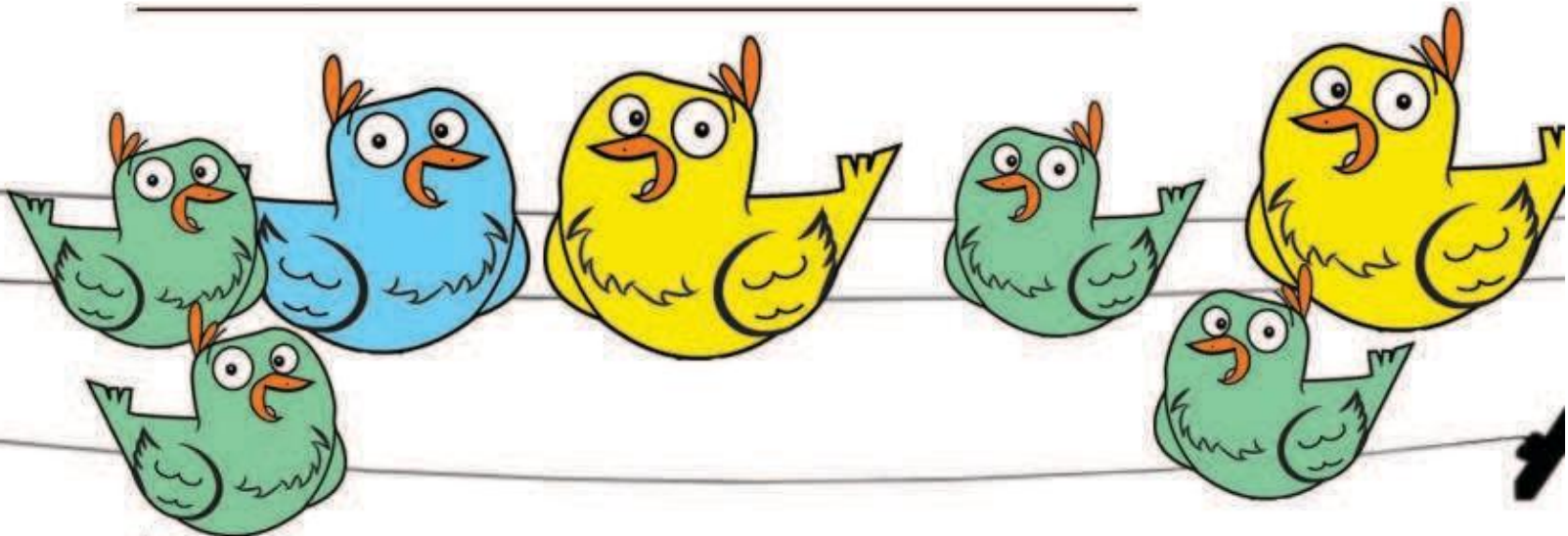
Sport Fans! Reading a Pictograph

These two pictographs are comparing numbers of balls kicked and thrown on the field. Look at the information and answer the questions below.

Note: each ⬤ in the pictograph stands for 600 of them and each ⬤ in the pictograph stands for 800 of them.

Match	Number of Balls Kicked
Match A	🏈 🏈 🏈 🏈 🏈
Match B	🏈 🏈 🏈 🏈
Match C	🏈 🏈 🏈 🏈 🏈 🏈
Match D	🏈 🏈 🏈 🏈 ◗

Match	Number of Balls Thrown
Match A	🏈 🏈 🏈 ◗
Match B	🏈 🏈 🏈 🏈 🏈
Match C	🏈 🏈 🏈 🏈 ◗
Match D	🏈 🏈 🏈 🏈

🏈 = 600   🏈 = 800

Questions:

1. What do you think this symbol ◗ represents?

Answer: _____

2. What do you think this symbol ◗ represents?

Answer: _____

3. What match had the same amount of balls kicked and thrown?

Answer: _____

4. In total did more balls get kicked or thrown in all the matches?
Answer: _____

5. Write in order the matches which have the most to the least balls kicked and thrown.

Answer: _____

Probability Quiz

Answer the questions below regarding each probability question.

1. In the word "BANANA", what is the letter that would most likely be picked at random?

   _____

2. A box contains 9 red marbles, 12 blue marbles, 13 green marbles and 6 white marbles. What is the probability of taking out a red marble?

   _____

3. If you chose a number at random below, what is the probability of picking an even number?

   3, 12, 15, 9, 5, 14, 21, 17

   _____

4. What is the probability of picking an odd number from the list of numbers below?

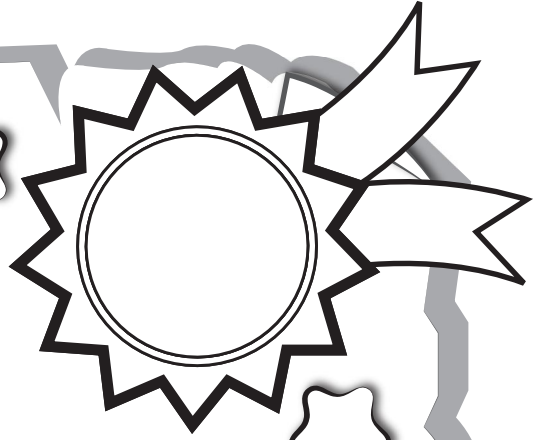   46, 44, 8, 22, 14, 12, 3, 7

   _____

5. What is the probability of choosing the letter "O" in SCHOOL?

   _____

6. There are 11 oranges, 6 apples, 9 bananas, and 13 peaches on the table. What is the probability of picking an orange?

   _____

Great job!

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Answer Sheets

Good Odds: Statistics and Probability

Answer Sheet

Bag O' Stuff: Cards

There is a bag of items.
Answer the questions using the pictures of what's in the bag.

1. What is the probability of pulling a **card of hearts** out of the bag?

$$5/20 = 1/4$$

2. What is the probability of pulling a **black card** out of the bag?

$$10/20 = 1/2$$

3. What is the probability of pulling an **Ace** out of the bag?

$$4/20 = 1/5$$

4. What is the probability of pulling a **red four** out of the bag?

$$2/20 = 1/10$$

5. What is the probability of pulling either a **card of spades or clubs** out of the bag?

$$10/20 = 1/2$$

6. What is the probability of pulling a **three of diamonds** out of the bag?

$$1/20$$

Answer Sheet

# Merchandise Multiplication

4th Grade

Use multiplication to solve the following problems. Show your work.

The Nguyen family gets movies from MovieMail home video delivery service. They get 3 movies at the beginning of the week and return them at the end of each week. If they continue this pattern, how many movies will they see in one year? (1 year = 52 weeks)

$$3 \times 52 = 156$$

156 movies

Look at the diagram of a portion of the local grocery store's parking lot. If there are 15 rows of parking spaces in the lot like this one, how many cars can the parking lot fit in total?

```
   12
 x 15
 ─────
   60
+ 120
 ─────
  180
```
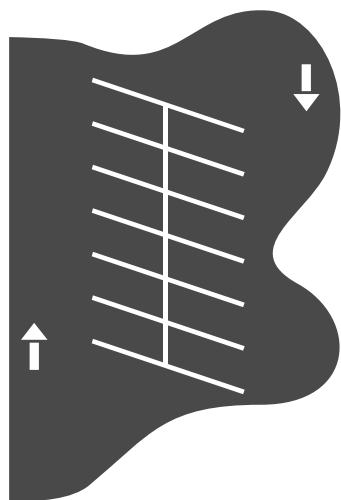
180 cars

Mr. Hayes is having friends over to watch basketball and needs to buy snacks. He buys 5 boxes of crackers. In each box there are 3 sleeves of 24 crackers. How many crackers did he buy all together? This is a two step problem. Try multiplying the numbers in different orders. Do you get the same answer? *You can find this answer by multiplying the numbers in any order.*

$$24 \times 3 = 72$$
$$72 \times 5 = 360$$

360 crackers

Mr. Chang is comparing television screen sizes. Screen #1 is 18 by 23 inches and screen #2 is 19 by 22 inches. Which television has the larger screen?

```
   18              19
 x 23           x 22
 ─────          ─────
   54              38
+ 360          + 380
 ─────          ─────
  414             418
```

Screen #2

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