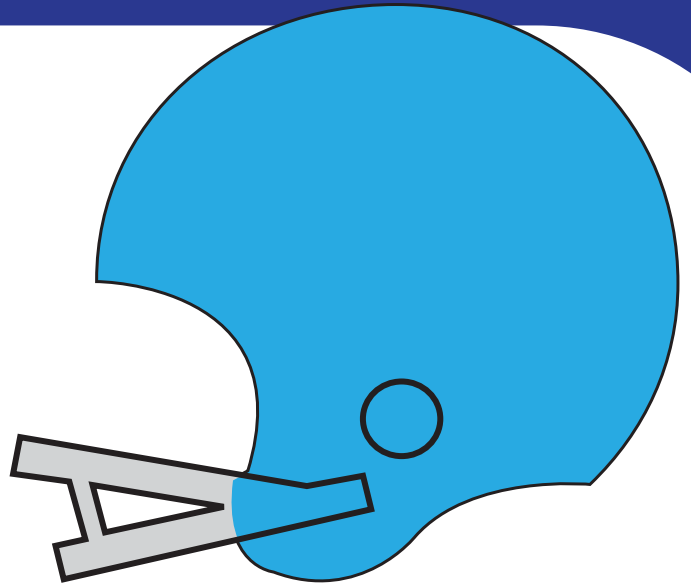


Master

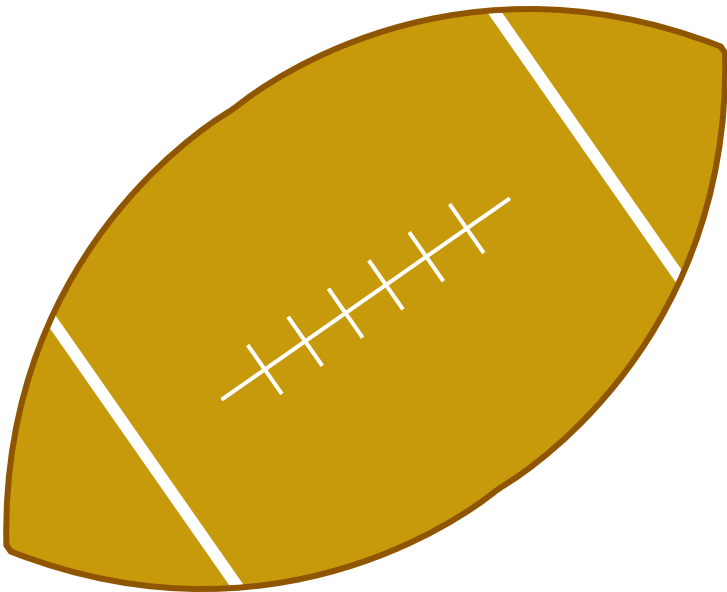
# Multiplication

**4<sup>th</sup>**  
Grade

$$6 \times 4 = \underline{\quad}$$



$$9 \times 2 = \underline{\quad}$$



# Table of Contents

---

## Master Multiplication

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*Certificate of Completion*

*Answer Sheets*

*\* Has an Answer Sheet*

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<http://www.education.com/education-plus/>

# Addition Facts

Multiplication problems can also be expressed with addition. Write the addition facts that go with each multiplication sentence. The first one is done for you.

$$3 \times 7 = 3 + 3 + 3 + 3 + 3 + 3 + 3$$

---

$$5 \times 4 =$$

---

$$6 \times 2 =$$

---

$$10 \times 5 =$$

---

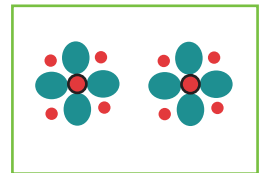
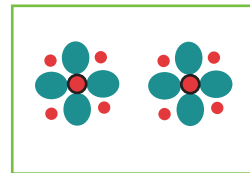
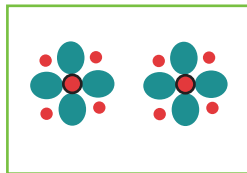
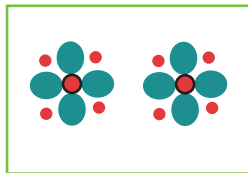
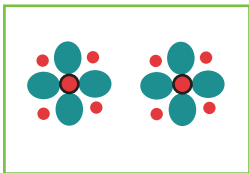
$$7 \times 7 =$$

---

$$9 \times 4 =$$

---

Look at the pictures below.



Write the addition fact:

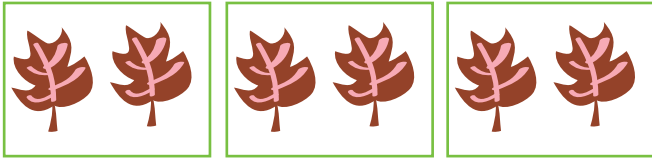
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Write the multiplication sentence:

---

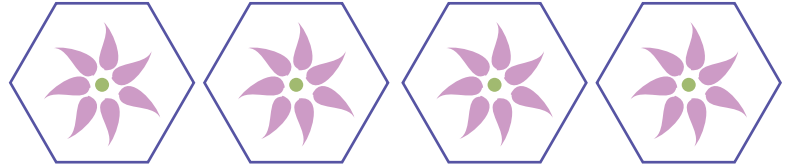
# Making Multiplication Sentences

Look at each picture below. Write both the addition and multiplication facts that illustrate each picture. The first one is done for you.



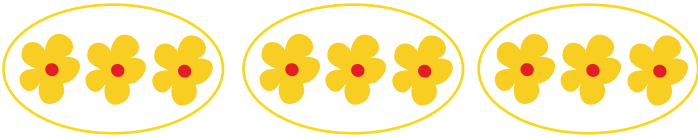
$$2 + 2 + 2$$

$$2 \times 3 = 6$$



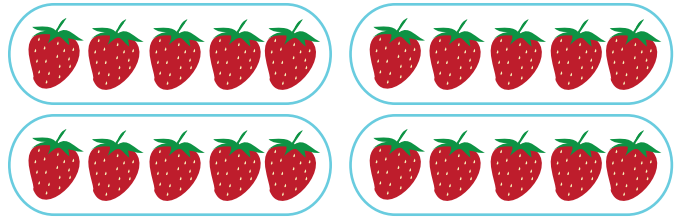
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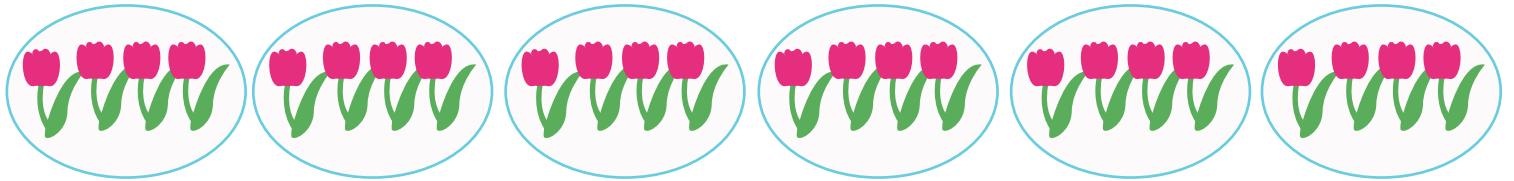
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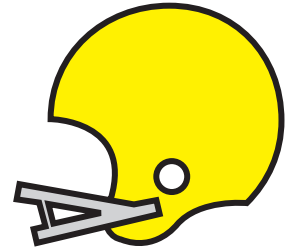
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# FOOTBALL MULTIPLICATION #1



Kick off! Time to take the field and score a touchdown for the home team. Solve the following multiplication problems and you'll be an All-Pro!



$3 \times 8 = \underline{\quad}$

$6 \times 4 = \underline{\quad}$

$3 \times 7 = \underline{\quad}$

$9 \times 2 = \underline{\quad}$

$4 \times 3 = \underline{\quad}$

$5 \times 5 = \underline{\quad}$

$7 \times 2 = \underline{\quad}$

$4 \times 4 = \underline{\quad}$

$5 \times 1 = \underline{\quad}$

$3 \times 3 = \underline{\quad}$

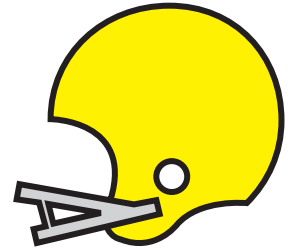
$2 \times 4 = \underline{\quad}$

$5 \times 2 = \underline{\quad}$

# FOOTBALL MULTIPLICATION #2



Kick off! Time to take the field and score a touchdown for the home team. Solve the following multiplication problems and you'll be an All-Pro!



$6 \times 4 = \underline{\quad}$

$7 \times 2 = \underline{\quad}$

$3 \times 5 = \underline{\quad}$

$8 \times 1 = \underline{\quad}$

$3 \times 3 = \underline{\quad}$

$2 \times 8 = \underline{\quad}$

$7 \times 3 = \underline{\quad}$

$4 \times 2 = \underline{\quad}$

$8 \times 3 = \underline{\quad}$

$4 \times 5 = \underline{\quad}$

$6 \times 2 = \underline{\quad}$

$9 \times 1 = \underline{\quad}$

# FOOTBALL MULTIPLICATION #3



Kick off! Time to take the field and score a touchdown for the home team. Solve the following multiplication problems and you'll be an All-Pro!



$2 \times 9 = \underline{\quad}$

$3 \times 3 = \underline{\quad}$

$5 \times 0 = \underline{\quad}$

$8 \times 3 = \underline{\quad}$

$5 \times 2 = \underline{\quad}$

$7 \times 3 = \underline{\quad}$

$2 \times 2 = \underline{\quad}$

$7 \times 1 = \underline{\quad}$

$4 \times 3 = \underline{\quad}$

$8 \times 2 = \underline{\quad}$

$5 \times 5 = \underline{\quad}$

$6 \times 3 = \underline{\quad}$

# FOOTBALL MULTIPLICATION #4



Kick off! Time to take the field and score a touchdown for the home team. Solve the following multiplication problems and you'll be an All-Pro!



$5 \times 2 = \underline{\quad}$

$6 \times 3 = \underline{\quad}$

$2 \times 2 = \underline{\quad}$

$8 \times 2 = \underline{\quad}$

$4 \times 5 = \underline{\quad}$

$2 \times 7 = \underline{\quad}$

$1 \times 8 = \underline{\quad}$

$3 \times 4 = \underline{\quad}$

$6 \times 4 = \underline{\quad}$

$8 \times 2 = \underline{\quad}$

$3 \times 5 = \underline{\quad}$

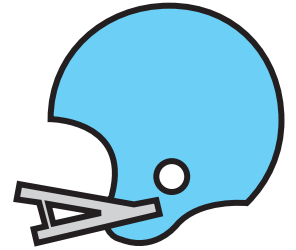
$6 \times 2 = \underline{\quad}$



# FOOTBALL MULTIPLICATION #5



Kick off! Time to take the field and score a touchdown for the home team. Solve the following multiplication problems and you'll be an All-Pro!



$5 \times 2 = \underline{\quad}$

$8 \times 3 = \underline{\quad}$

$9 \times 2 = \underline{\quad}$

$0 \times 7 = \underline{\quad}$

$4 \times 6 = \underline{\quad}$

$3 \times 3 = \underline{\quad}$

$6 \times 3 = \underline{\quad}$

$2 \times 4 = \underline{\quad}$

$7 \times 3 = \underline{\quad}$

$6 \times 2 = \underline{\quad}$

$1 \times 9 = \underline{\quad}$

$5 \times 5 = \underline{\quad}$

# Find The Multiplication Facts

Multiplication is the reverse of division.

**Example:** If the division sentence is  $12 \div 6 = 2$ ,  
Then the related multiplication facts are  $6 \times 2 = 12$  and  $2 \times 6 = 12$ .

Look at these division sentences, and write down the two related multiplication facts.



$$10 \div 5 = 2$$

---

---

$$35 \div 7 = 5$$

---

---

$$96 \div 8 = 12$$

---

---

$$120 \div 12 = 10$$

---

---

$$44 \div 11 = 4$$

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$$76 \div 2 = 38$$

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$$81 \div 9 = 9$$

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$$75 \div 25 = 3$$

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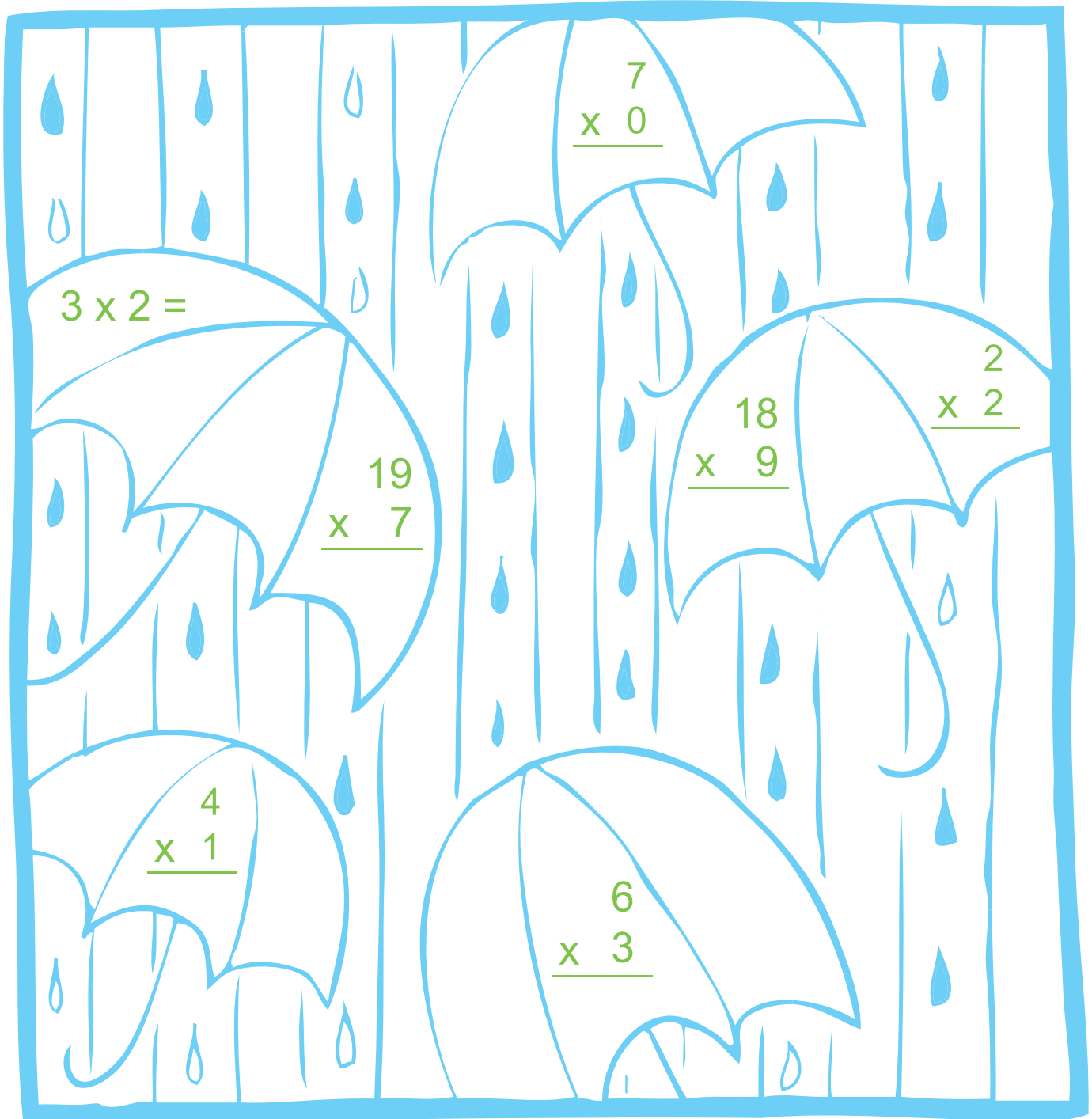
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$$999 \div 3 = 333$$

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# Umbrella Math

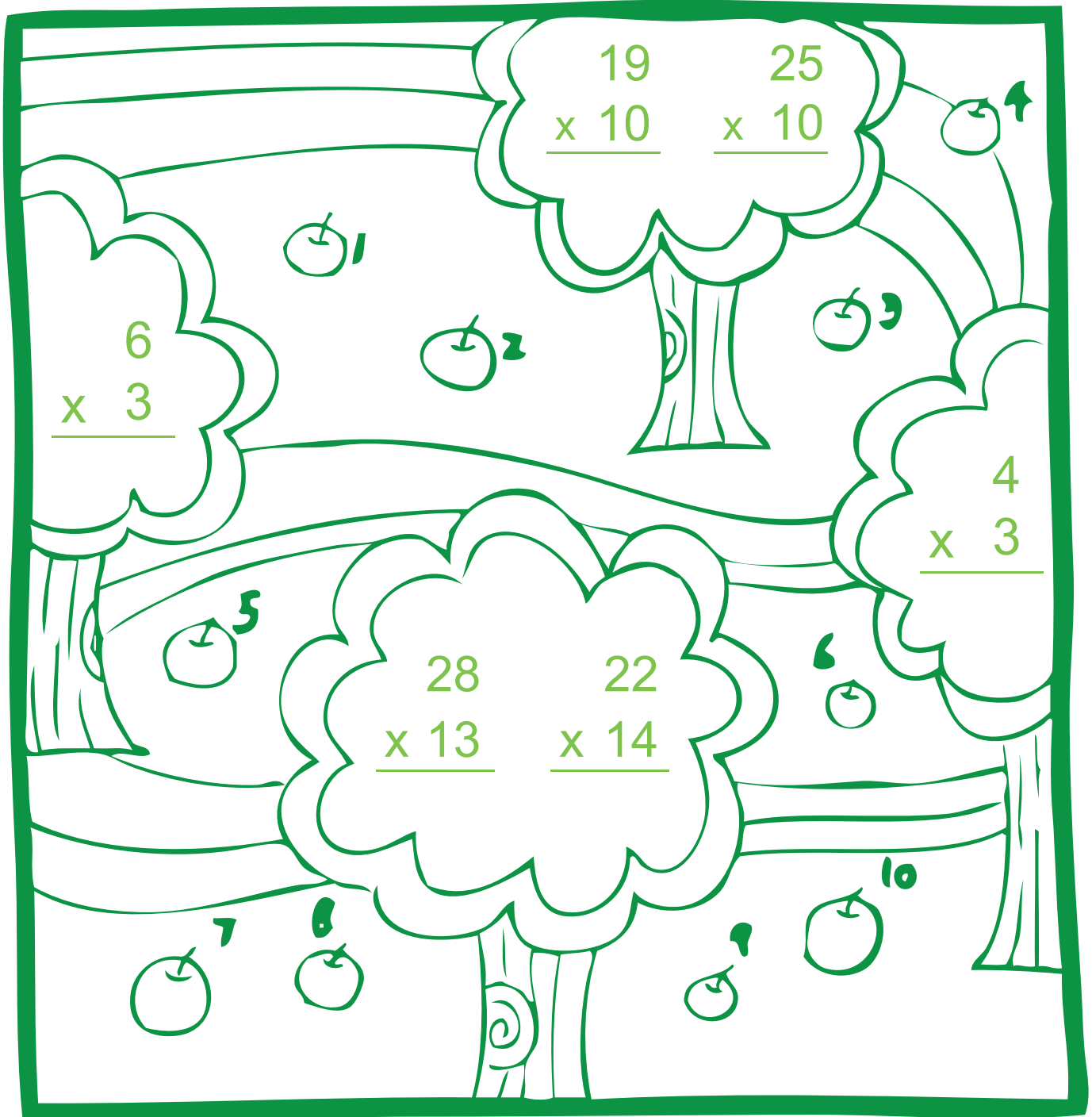


Note: More worksheets at [www.education.com/worksheets](http://www.education.com/worksheets)

## Instructions:

Complete each math problem and color the page!

# Apple Tree Math



Note: More worksheets at [www.education.com/worksheets](http://www.education.com/worksheets)

## Instructions:

Complete each math problem and color the page!

# Mammoth Multiplication Problems

There is no monkeying around with these multiplication problems!



$$\begin{array}{r} 72 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 63 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 78 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 82 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 67 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 89 \\ \times 5 \\ \hline \end{array}$$





## Double Digit Multiplication



$$\begin{array}{r} 34 \\ \times 45 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 78 \\ \times 42 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 94 \\ \times 12 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 14 \\ \times 33 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 56 \\ \times 77 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 84 \\ \times 24 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 16 \\ \times 51 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 65 \\ \times 11 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 76 \\ \times 20 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 30 \\ \times 62 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 22 \\ \times 99 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 89 \\ \times 47 \\ \hline \end{array}$$

\_\_\_\_\_

# GREATER THAN OR LESS THAN?


> " GREATER THAN"

< " LESS THAN"

= "EQUAL"

**Directions:** Solve the equations then write down the symbol that best compares each answer. Then write the answer in word form.

Example:

Ex.  $(232 \times 32)$    $(22 \times 150)$   
7424                      3300

Seven thousand, four hundred and twenty-four is greater than three thousand, three hundred.

1.  $\begin{array}{r} 89 \\ \times 63 \\ \hline \end{array}$    $\begin{array}{r} 134 \\ \times 24 \\ \hline \end{array}$

---

---

---

2.  $\begin{array}{r} 346 \\ \times 3 \\ \hline \end{array}$    $\begin{array}{r} 45 \\ \times 23 \\ \hline \end{array}$

---

---

---

3.  $\begin{array}{r} 142 \\ \times 10 \\ \hline \end{array}$    $\begin{array}{r} 71 \\ \times 20 \\ \hline \end{array}$

---

---

---

4.  $\begin{array}{r} 232 \\ \times 85 \\ \hline \end{array}$    $\begin{array}{r} 560 \\ \times 42 \\ \hline \end{array}$

---

---

---

5.  $\begin{array}{r} 843 \\ \times 27 \\ \hline \end{array}$    $\begin{array}{r} 235 \\ \times 94 \\ \hline \end{array}$

---

---

---

# GREATER THAN OR LESS THAN?

> " GREATER THAN"

< " LESS THAN"

= "EQUAL"

**Directions:** Solve the equations then write down the symbol that best compares each answer. Then write the answer in word form.

Example:

Ex.  $(232 \times 32)$   $>$   $(22 \times 150)$   
7424                      3300

Seven thousand, four hundred and twenty-four is greater than three thousand, three hundred.

1.  $\begin{array}{r} 539 \\ \times 223 \\ \hline \end{array}$   $\square$   $\begin{array}{r} 133 \\ \times 624 \\ \hline \end{array}$

---

---

---

---

2.  $\begin{array}{r} 439 \\ \times 173 \\ \hline \end{array}$   $\square$   $\begin{array}{r} 244 \\ \times 324 \\ \hline \end{array}$

---

---

---

---

3.  $\begin{array}{r} 453 \\ \times 513 \\ \hline \end{array}$   $\square$   $\begin{array}{r} 1223 \\ \times 154 \\ \hline \end{array}$

---

---

---

---

4.  $\begin{array}{r} 745 \\ \times 16 \\ \hline \end{array}$   $\square$   $\begin{array}{r} 394 \\ \times 85 \\ \hline \end{array}$

---

---

---

---



**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?

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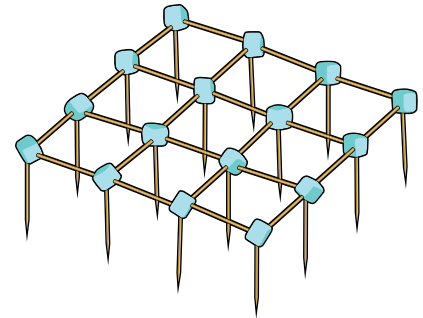
Mikey is typing in the computer lab and typing at 23 words per minute. If he types for 11 minutes, how many words does he type?



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?

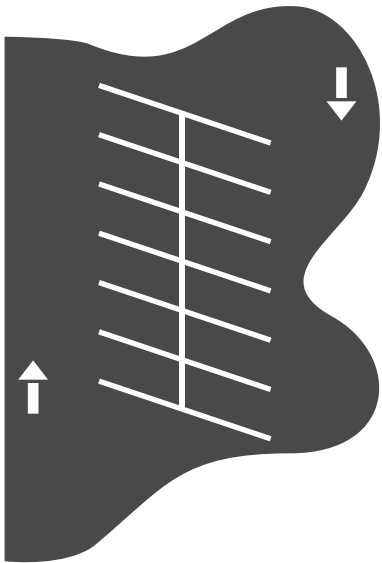
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Use multiplication to solve the following problems. Show your work.

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)

---

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?



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?

---

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?

---

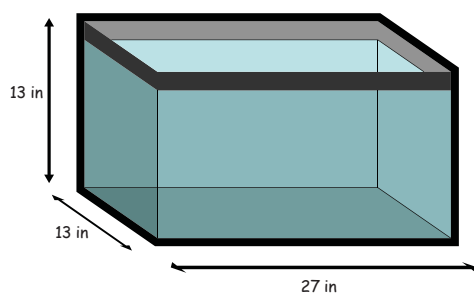
**Math in the animal kingdom! Use multiplication to solve the following problems. Add or subtract when necessary. Show your work.**

Mario walks his dog every day. The walk path makes a giant loop that is 279 feet long. If Mario and his dog make 3 laps around the loop, how far do they walk?

Racquel buys a small aquarium for her fish collection. The fish tank is 27 inches wide, 13 inches tall, and 13 inches deep. What is the maximum volume of water can the aquarium hold? This problem requires two multiplication steps, does the order of operations matter?

Remember,

$$\text{Volume} = \text{Length} \times \text{Width} \times \text{Height}.$$



Josefina's cat, Whiskers, climbed into a tree and was too scared to come down. Her dad climbed up a ladder to bring down Whiskers. If Josefina's dad had to climb up 15 ladder steps and the steps are 32 centimeters apart, how high up did Whiskers go?

Julie is teaching her parrot, Romeo, how to say new words. If she teaches him 11 words each month. How many words will Romeo learn in a year?



# 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.

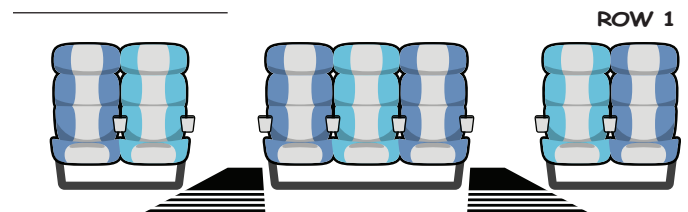
Driving to the airport, the Smiths needed to fill up on gasoline. Gasoline costs 3 dollars for one gallon. If their tank holds 16 gallons, and they already have 3 gallons filled, how much money will it cost to fill the car's tank completely?

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:

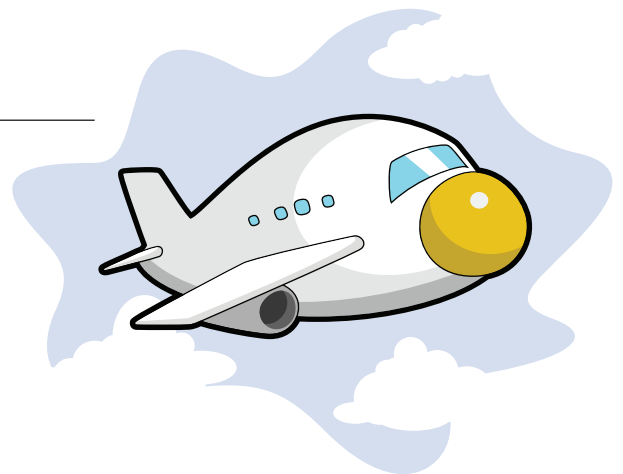
- 1 Quarter = 15 minutes
- 1 Dime = 5 minutes
- 1 Nickel = 2 minutes

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?



# Finding Factors

Factors are numbers that you multiply together to get another number. For example, 2 multiplied by 4 equals 8. So 2 and 4 are the factors of 8.

Find the factors of the numbers below. See the example.

$10 = \underline{2 \times 5}$

$18 = \underline{\hspace{2cm}}$

$24 = \underline{\hspace{2cm}}$

$30 = \underline{\hspace{2cm}}$

$32 = \underline{\hspace{2cm}}$

$39 = \underline{\hspace{2cm}}$

Find the missing factors.

$15 = 3 \times \boxed{\hspace{1cm}}$

$21 = 3 \times \boxed{\hspace{1cm}}$

$45 = 9 \times \boxed{\hspace{1cm}}$

$42 = 7 \times \boxed{\hspace{1cm}}$

$36 = 2 \times 2 \times 3 \times \boxed{\hspace{1cm}}$

$60 = 2 \times 3 \times 2 \times \boxed{\hspace{1cm}}$

$75 = 5 \times 3 \times \boxed{\hspace{1cm}}$

\* When the factor is a prime number, it is called a prime factor.



# Multiply Three Numbers

Here's a trick! First, multiply the first number by the second one. Then multiply the product of the first two numbers by the third number. Find the product of these multiplication sentences. The first one is done for you.

$3 \times 6 \times 2$

$18 \times 2$

$36$

$5 \times 4 \times 3$

$\text{ } \times 3$

$2 \times 4 \times 6$

$\text{ } \times 6$

$3 \times 5 \times 3$

$\text{ } \times 3$

$4 \times 3 \times 2 \times 2$

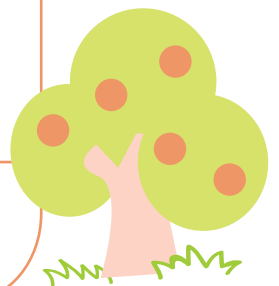
$\text{ } \times 2 \times 2$

$\text{ } \times 2$

$6 \times 5 \times 4 \times 3$

$\text{ } \times 4 \times 3$

$\text{ } \times 3$



# Math-Go-Round

**Multiplication | Difficulty: ★★★★★**

Find a friend and practice your multiplication skills. Find two coins or game pieces and place them on the square labeled **START**. Choose one of the problems to solve and move your game piece clockwise around the board to that problem's answer.

Keep track of the number of corners you go around on each move. For each one, give yourself a point. The player with the most points at the end is the winner.

Keep score with the table below.

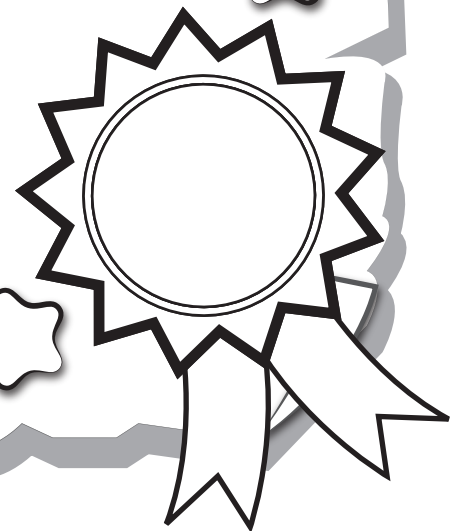
	Player 1	Player 2
Round 1		
Round 2		
Round 3		
Round 4		
Round 5		
Round 6		
Round 7		
Round 8		
<b>Total</b>	_____	_____

<b>START</b> +1 Point	7,957	3,861	4,462	6,384	+1 Point
1,694	$\begin{array}{r} 143 \\ \times 27 \\ \hline \end{array}$	$\begin{array}{r} 152 \\ \times 42 \\ \hline \end{array}$	$\begin{array}{r} 141 \\ \times 33 \\ \hline \end{array}$	$\begin{array}{r} 137 \\ \times 63 \\ \hline \end{array}$	1,610
2,916	$\begin{array}{r} 172 \\ \times 51 \\ \hline \end{array}$	$\begin{array}{r} 194 \\ \times 23 \\ \hline \end{array}$	$\begin{array}{r} 115 \\ \times 14 \\ \hline \end{array}$	$\begin{array}{r} 104 \\ \times 85 \\ \hline \end{array}$	3,021
4,653	$\begin{array}{r} 154 \\ \times 11 \\ \hline \end{array}$	$\begin{array}{r} 170 \\ \times 58 \\ \hline \end{array}$	$\begin{array}{r} 139 \\ \times 24 \\ \hline \end{array}$	$\begin{array}{r} 158 \\ \times 59 \\ \hline \end{array}$	8,840
9,860	$\begin{array}{r} 129 \\ \times 11 \\ \hline \end{array}$	$\begin{array}{r} 109 \\ \times 73 \\ \hline \end{array}$	$\begin{array}{r} 108 \\ \times 27 \\ \hline \end{array}$	$\begin{array}{r} 159 \\ \times 19 \\ \hline \end{array}$	8,772
+1 Point	3,336	8,631	9,332	1,419	+1 Point

Great job!

---

is an Education.com math superstar





# Answer Sheets

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## Master Multiplication

Addition Facts  
Making Multiplication Sentences  
Football Multiplication #1  
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Football Multiplication #3  
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Family Vacation Multiplication  
Finding Factors  
Multiply Three Numbers

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# Answer Sheet

## ANSWER SHEET

### Addition Facts

Math  
Addition  
&  
Multiplication

Multiplication problems can also be expressed with addition. Write the addition facts that go with each multiplication sentence. The first one is done for you.

$$3 \times 7 = 3 + 3 + 3 + 3 + 3 + 3 + 3$$

$$5 \times 4 = 5 + 5 + 5 + 5$$

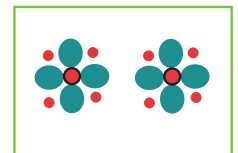
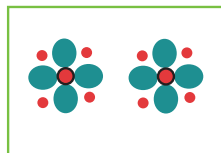
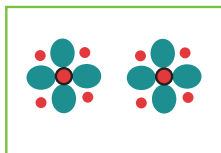
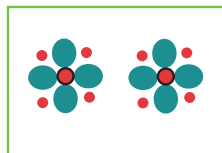
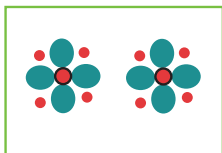
$$6 \times 2 = 6 + 6$$

$$10 \times 5 = 10 + 10 + 10 + 10 + 10$$

$$7 \times 7 = 7 + 7 + 7 + 7 + 7 + 7 + 7$$

$$9 \times 4 = 9 + 9 + 9 + 9$$

Look at the pictures below.



Write the addition fact:

$$2 + 2 + 2 + 2 + 2$$

Write the multiplication sentence:

$$2 \times 5$$

# Answer Sheet

## ANSWER SHEET

Math  
Multiplication

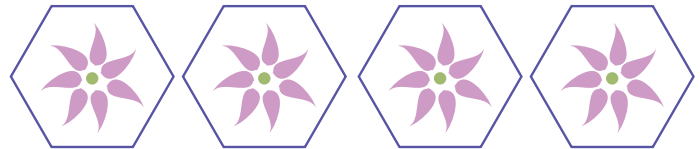
### Making Multiplication Sentences

Look at each picture below. Write both the addition and multiplication facts that illustrate each picture. The first one is done for you.



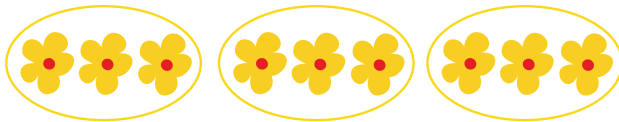
$$2 + 2 + 2$$

$$2 \times 3 = 6$$



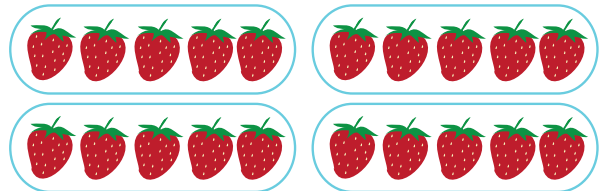
$$1 + 1 + 1 + 1$$

$$1 \times 4 = 4$$



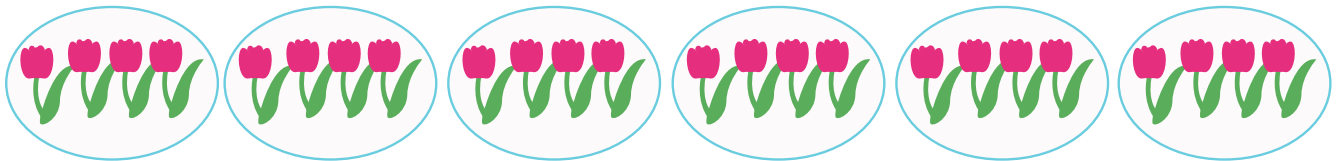
$$3 + 3 + 3$$

$$3 \times 3 = 9$$



$$5 + 5 + 5 + 5$$

$$5 \times 4 = 20$$



$$4 + 4 + 4 + 4 + 4 + 4$$

$$4 \times 6 = 24$$

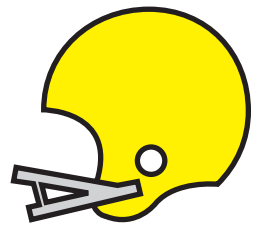
# Answer Sheet

## ANSWER SHEET

# FOOTBALL MULTIPLICATION #1



Kick off! Time to take the field and score a touchdown for the home team. Solve the following multiplication problems and you'll be an All-Pro!



$3 \times 8 = \underline{24}$

$6 \times 4 = \underline{24}$

$3 \times 7 = \underline{21}$

$9 \times 2 = \underline{18}$

$4 \times 3 = \underline{12}$

$5 \times 5 = \underline{25}$

$7 \times 2 = \underline{14}$

$4 \times 4 = \underline{16}$

$5 \times 1 = \underline{5}$

$3 \times 3 = \underline{9}$

$2 \times 4 = \underline{8}$

$5 \times 2 = \underline{10}$

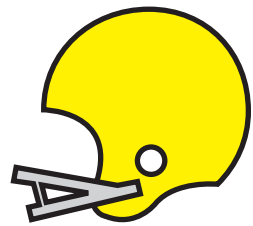
# Answer Sheet

## ANSWER SHEET

# FOOTBALL MULTIPLICATION #2



Kick off! Time to take the field and score a touchdown for the home team. Solve the following multiplication problems and you'll be an All-Pro!



$6 \times 4 = \underline{24}$

$7 \times 2 = \underline{14}$

$3 \times 5 = \underline{15}$

$8 \times 1 = \underline{8}$

$3 \times 3 = \underline{9}$

$2 \times 8 = \underline{16}$

$7 \times 3 = \underline{21}$

$4 \times 2 = \underline{8}$

$8 \times 3 = \underline{24}$

$4 \times 5 = \underline{20}$

$6 \times 2 = \underline{12}$

$9 \times 1 = \underline{9}$

# Answer Sheet

## ANSWER SHEET

# FOOTBALL MULTIPLICATION #3



Kick off! Time to take the field and score a touchdown for the home team. Solve the following multiplication problems and you'll be an All-Pro!



$2 \times 9 = \underline{18}$

$3 \times 3 = \underline{9}$

$5 \times 0 = \underline{5}$

$8 \times 3 = \underline{24}$

$5 \times 2 = \underline{10}$

$7 \times 3 = \underline{21}$

$2 \times 2 = \underline{4}$

$7 \times 1 = \underline{7}$

$4 \times 3 = \underline{12}$

$8 \times 2 = \underline{16}$

$5 \times 5 = \underline{25}$

$6 \times 3 = \underline{18}$

# Answer Sheet

## ANSWER SHEET FOOTBALL MULTIPLICATION #4



Kick off! Time to take the field and score a touchdown for the home team. Solve the following multiplication problems and you'll be an All-Pro!



$5 \times 2 = \underline{10}$

$6 \times 3 = \underline{18}$

$2 \times 2 = \underline{4}$

$8 \times 2 = \underline{16}$

$4 \times 5 = \underline{20}$

$2 \times 7 = \underline{14}$

$1 \times 8 = \underline{8}$

$3 \times 4 = \underline{12}$

$6 \times 4 = \underline{24}$

$8 \times 2 = \underline{16}$

$3 \times 5 = \underline{15}$

$6 \times 2 = \underline{12}$

# Answer Sheet

## ANSWER SHEET

# FOOTBALL MULTIPLICATION #5



Kick off! Time to take the field and score a touchdown for the home team. Solve the following multiplication problems and you'll be an All-Pro!



$5 \times 2 = \underline{10}$

$8 \times 3 = \underline{24}$

$9 \times 2 = \underline{18}$

$0 \times 7 = \underline{0}$

$4 \times 6 = \underline{24}$

$3 \times 3 = \underline{9}$

$6 \times 3 = \underline{18}$

$2 \times 4 = \underline{8}$

$7 \times 3 = \underline{21}$

$6 \times 2 = \underline{12}$

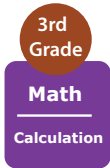
$1 \times 9 = \underline{9}$

$5 \times 5 = \underline{25}$



# Answer Sheet

## ANSWER SHEET



## Find The Multiplication Facts

Multiplication is the reverse of division.

**Example:** If the division sentence is  $12 \div 6 = 2$ ,  
Then the related multiplication facts are  $6 \times 2 = 12$  and  $2 \times 6 = 12$ .

Look at these division sentences, and write down the two related multiplication facts.



$$10 \div 5 = 2$$

$$5 \times 2 = 10$$

$$2 \times 5 = 10$$

$$35 \div 7 = 5$$

$$7 \times 5 = 35$$

$$5 \times 7 = 35$$

$$96 \div 8 = 12$$

$$12 \times 8 = 96$$

$$8 \times 12 = 96$$

$$120 \div 12 = 10$$

$$12 \times 10 = 120$$

$$10 \times 12 = 120$$

$$44 \div 11 = 4$$

$$11 \times 4 = 44$$

$$4 \times 11 = 44$$

$$76 \div 2 = 38$$

$$38 \times 2 = 76$$

$$2 \times 38 = 76$$

$$81 \div 9 = 9$$

$$9 \times 9 = 81$$

$$9 \times 9 = 81$$

$$75 \div 25 = 3$$

$$25 \times 3 = 75$$

$$3 \times 25 = 75$$

$$999 \div 3 = 333$$

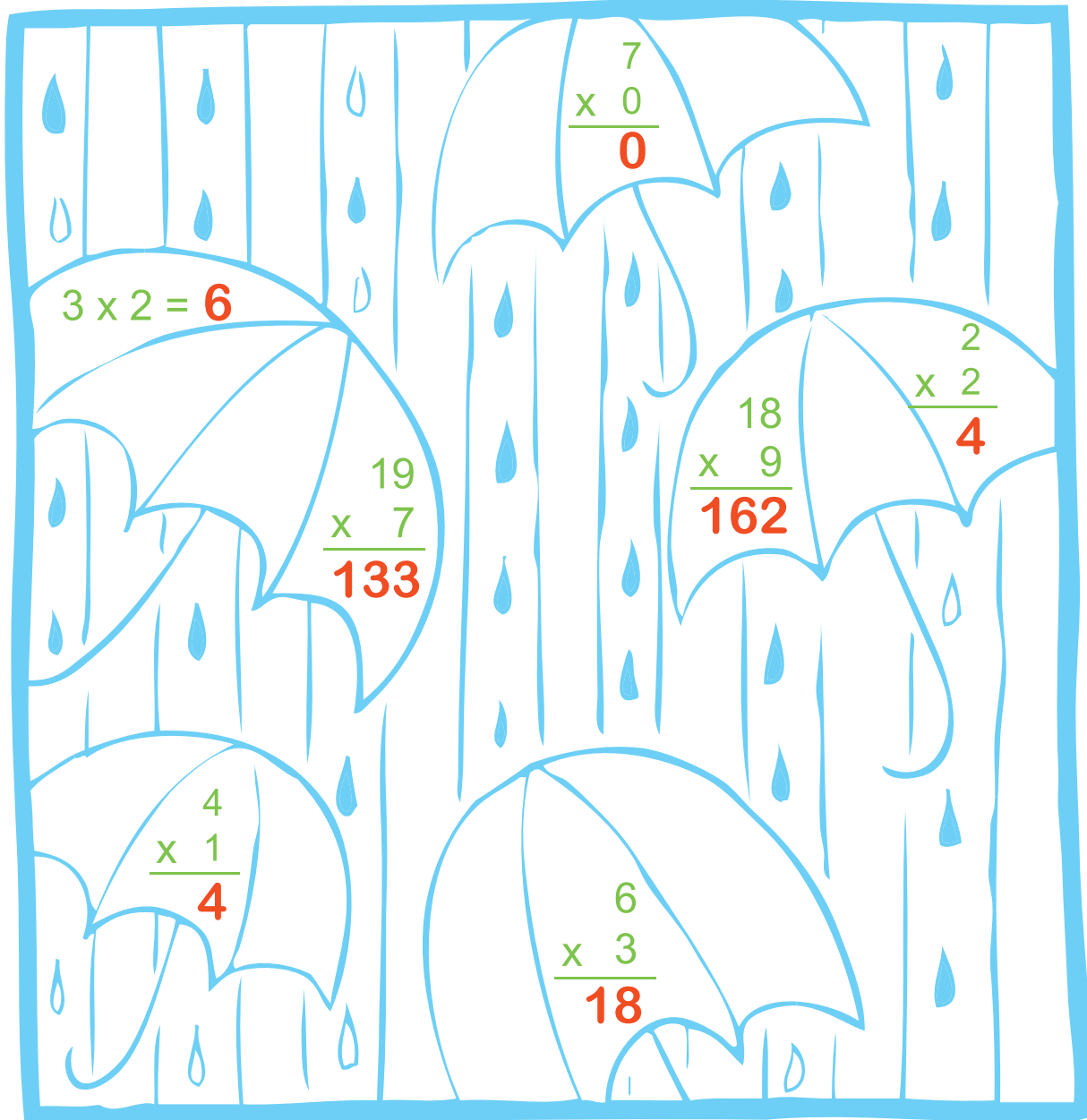
$$3 \times 333 = 999$$

$$333 \times 3 = 999$$

# Answer Sheet

## ANSWER SHEET

### Umbrella Math



Note: More worksheets at [www.education.com/worksheets](http://www.education.com/worksheets)

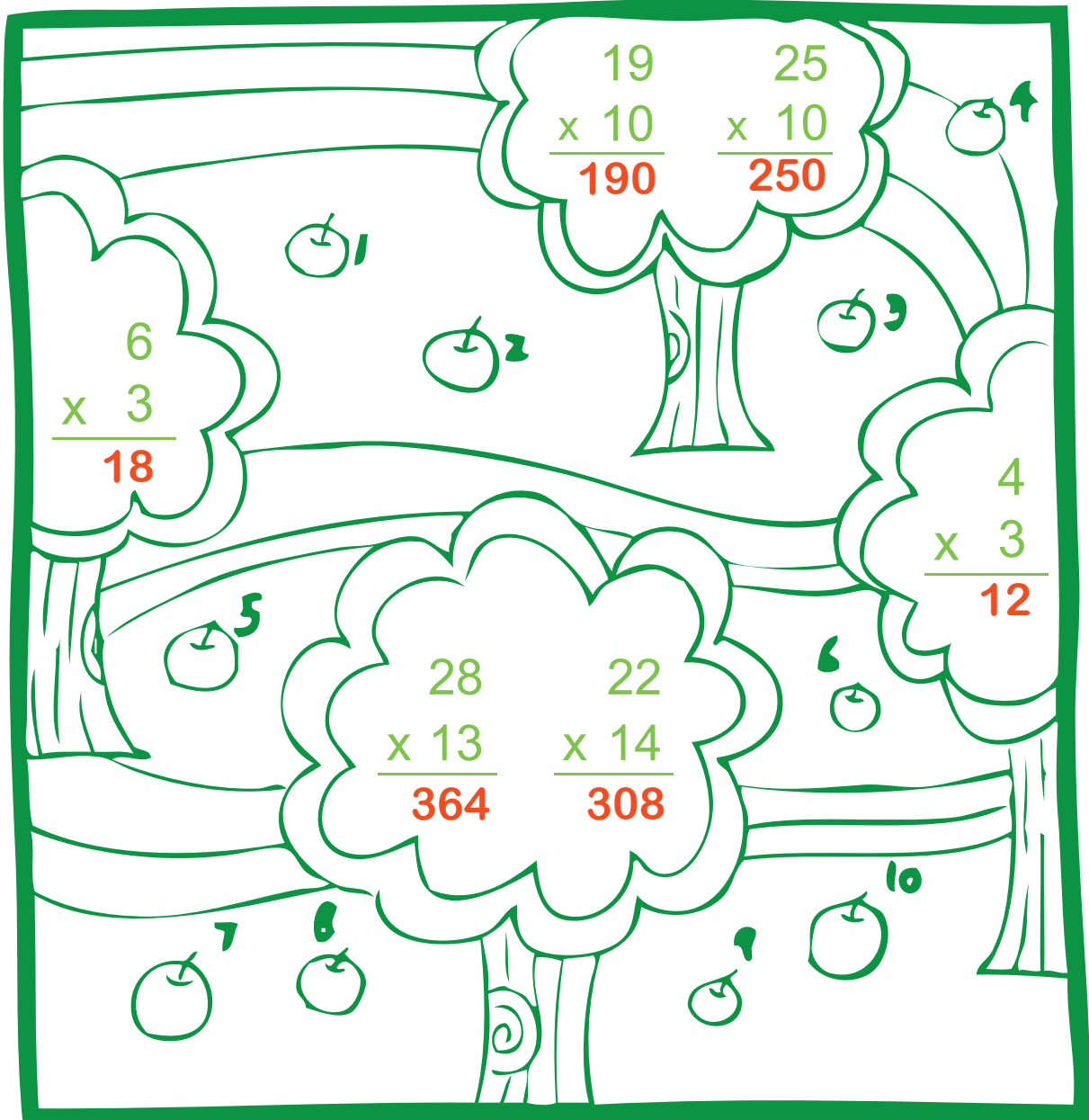
### Instructions:

Complete each math problem and color the page!

# Answer Sheet

## ANSWER SHEET

### Apple Tree Math



Note: More worksheets at [www.education.com/worksheets](http://www.education.com/worksheets)

#### Instructions:

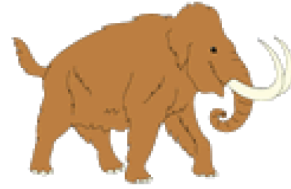
Complete each math problem and color the page!

# Answer Sheet

## ANSWER SHEET

### Mammoth Multiplication Problems

There is no monkeying around with these multiplication problems!



$$\begin{array}{r} 72 \\ \times 3 \\ \hline 216 \end{array}$$

$$\begin{array}{r} 43 \\ \times 6 \\ \hline 258 \end{array}$$

$$\begin{array}{r} 28 \\ \times 2 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 32 \\ \times 8 \\ \hline 256 \end{array}$$

$$\begin{array}{r} 55 \\ \times 4 \\ \hline 220 \end{array}$$

$$\begin{array}{r} 19 \\ \times 9 \\ \hline 171 \end{array}$$

$$\begin{array}{r} 63 \\ \times 7 \\ \hline 441 \end{array}$$

$$\begin{array}{r} 78 \\ \times 5 \\ \hline 390 \end{array}$$

$$\begin{array}{r} 49 \\ \times 6 \\ \hline 294 \end{array}$$

$$\begin{array}{r} 82 \\ \times 3 \\ \hline 246 \end{array}$$

$$\begin{array}{r} 57 \\ \times 8 \\ \hline 456 \end{array}$$

$$\begin{array}{r} 15 \\ \times 4 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 36 \\ \times 7 \\ \hline 252 \end{array}$$

$$\begin{array}{r} 67 \\ \times 2 \\ \hline 134 \end{array}$$

$$\begin{array}{r} 22 \\ \times 9 \\ \hline 198 \end{array}$$

$$\begin{array}{r} 89 \\ \times 5 \\ \hline 445 \end{array}$$



# Answer Sheet



## Double Digit Multiplication (answer sheet)



$$\begin{array}{r} 34 \\ \times 45 \\ \hline 170 \\ 136 \\ \hline 1530 \end{array}$$

$$\begin{array}{r} 78 \\ \times 42 \\ \hline 156 \\ 312 \\ \hline 3276 \end{array}$$

$$\begin{array}{r} 94 \\ \times 12 \\ \hline 188 \\ 94 \\ \hline 1128 \end{array}$$

$$\begin{array}{r} 14 \\ \times 33 \\ \hline 42 \\ 42 \\ \hline 462 \end{array}$$

$$\begin{array}{r} 56 \\ \times 77 \\ \hline 392 \\ 392 \\ \hline 4312 \end{array}$$

$$\begin{array}{r} 84 \\ \times 24 \\ \hline 336 \\ 168 \\ \hline 2016 \end{array}$$

$$\begin{array}{r} 16 \\ \times 51 \\ \hline 16 \\ 80 \\ \hline 816 \end{array}$$

$$\begin{array}{r} 65 \\ \times 11 \\ \hline 65 \\ 65 \\ \hline 715 \end{array}$$

$$\begin{array}{r} 76 \\ \times 20 \\ \hline 00 \\ 152 \\ \hline 1520 \end{array}$$

$$\begin{array}{r} 30 \\ \times 62 \\ \hline 60 \\ 180 \\ \hline 1860 \end{array}$$

$$\begin{array}{r} 22 \\ \times 99 \\ \hline 198 \\ 198 \\ \hline 2178 \end{array}$$

$$\begin{array}{r} 89 \\ \times 47 \\ \hline 623 \\ 356 \\ \hline 4183 \end{array}$$

# Answer Sheet

## GREATER THAN OR LESS THAN?

> " GREATER THAN"

< " LESS THAN"

= "EQUAL"

**Directions:** Solve the equations then write down the symbol that best compares each answer. Then write the answer in word form.

Example:

Ex.  $(232 \times 32)$   $>$   $(22 \times 150)$   
 $7424$   $3300$

Seven thousand, four hundred and twenty-four is greater than three thousand, three hundred.

1.  $\begin{array}{r} 89 \\ \times 63 \\ \hline 5607 \end{array}$   $>$   $\begin{array}{r} 134 \\ \times 24 \\ \hline 3216 \end{array}$

Five thousand, six hundred and seven is greater than three thousand, two hundred and sixteen.

2.  $\begin{array}{r} 346 \\ \times 3 \\ \hline 1038 \end{array}$   $>$   $\begin{array}{r} 45 \\ \times 23 \\ \hline 1035 \end{array}$

One thousand and thirty-eight is greater than one thousand and thirty-five.

3.  $\begin{array}{r} 142 \\ \times 10 \\ \hline 1420 \end{array}$   $=$   $\begin{array}{r} 71 \\ \times 20 \\ \hline 1420 \end{array}$

One thousand, four hundred and twenty is equal to one thousand, four hundred and twenty.

4.  $\begin{array}{r} 232 \\ \times 85 \\ \hline 19720 \end{array}$   $<$   $\begin{array}{r} 560 \\ \times 42 \\ \hline 23520 \end{array}$

Nineteen thousand, seven hundred and twenty is less than twenty-three thousand, five hundred and twenty.

5.  $\begin{array}{r} 843 \\ \times 27 \\ \hline 22761 \end{array}$   $>$   $\begin{array}{r} 235 \\ \times 94 \\ \hline 22090 \end{array}$

Twenty-two thousand, seven hundred and sixty-one is greater than twenty two thousand and ninety.

# Answer Sheet

## GREATER THAN OR LESS THAN?

> " GREATER THAN"

< " LESS THAN"

= "EQUAL"

**Directions:** Solve the equations then write down the symbol that best compares each answer. Then write the answer in word form.

Example:

Ex.  $(232 \times 32)$   $>$   $(22 \times 150)$   
7424                      3300

Seven thousand, four hundred and twenty-four is greater than three thousand, three hundred.

1. 
$$\begin{array}{r} 539 \\ \times 223 \\ \hline 120,197 \end{array}$$
  $>$  
$$\begin{array}{r} 133 \\ \times 624 \\ \hline 82,992 \end{array}$$

One hundred twenty thousand, one hundred and ninety-seven is greater than eighty-two thousand, nine hundred and ninety-two.

2. 
$$\begin{array}{r} 439 \\ \times 173 \\ \hline 75,947 \end{array}$$
  $<$  
$$\begin{array}{r} 244 \\ \times 324 \\ \hline 79,056 \end{array}$$

Seventy-five thousand, nine hundred forty-seven is less than seventy-nine thousand, and fifty-six.

3. 
$$\begin{array}{r} 453 \\ \times 513 \\ \hline 232,389 \end{array}$$
  $>$  
$$\begin{array}{r} 1223 \\ \times 154 \\ \hline 188,342 \end{array}$$

Two hundred, thirty-two thousand, three hundred and eighty-nine is greater than one hundred eighty-eight thousand, three hundred and forty-two.

4. 
$$\begin{array}{r} 745 \\ \times 16 \\ \hline 11,920 \end{array}$$
  $<$  
$$\begin{array}{r} 394 \\ \times 85 \\ \hline 33,490 \end{array}$$

Eleven thousand, nine hundred and twenty is less than thirty-three thousand, four hundred and ninety.

# Answer Sheet

## Classroom Math: Multiplication Word Problems

Answer  
Sheet



4<sup>th</sup>  
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?

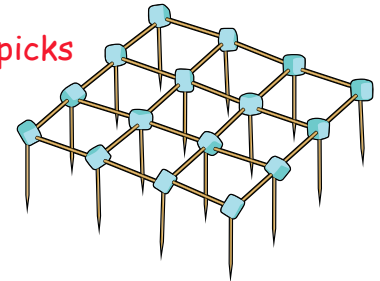
$$\begin{array}{r} 40 \\ \times 13 \\ \hline 120 \\ + 400 \\ \hline 520 \end{array}$$

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

## Merchandise Multiplication

# 4<sup>th</sup>

Answer Sheet

Grade

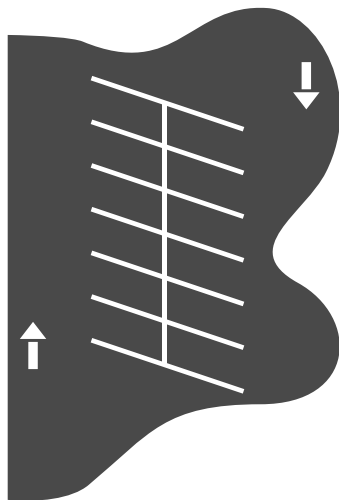
Use multiplication to solve the following problems. Show your work.

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?



$$\begin{array}{r} 12 \\ \times 15 \\ \hline 60 \\ + 120 \\ \hline 180 \end{array}$$

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?

$$\begin{array}{r} 18 \\ \times 23 \\ \hline 54 \\ + 360 \\ \hline 414 \end{array}$$

$$\begin{array}{r} 19 \\ \times 22 \\ \hline 38 \\ + 380 \\ \hline 418 \end{array}$$

Screen #2

# Answer Sheet

## ANSWER SHEET

### Wild Word Problems: Multiplication

# 4<sup>th</sup>

Grade

Math in the animal kingdom! Use multiplication to solve the following problems. Add or subtract when necessary. Show your work.

Mario walks his dog every day. The walk path makes a giant loop that is 279 feet long. If Mario and his dog make 3 laps around the loop, how far do they walk?

$$279 \times 3 = 837$$

They walk 837 feet long.

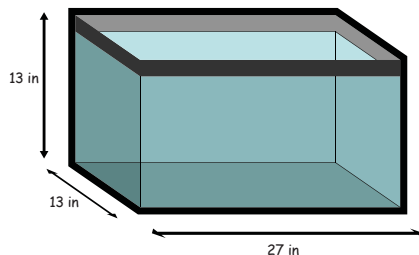
Racquel buys a small aquarium for her fish collection. The fish tank is 27 inches wide, 13 inches tall, and 13 inches deep. What is the maximum volume of water can the aquarium hold? This problem requires two multiplication steps, does the order of operations matter?

Remember,

$$\text{Volume} = \text{Length} \times \text{Width} \times \text{Height}.$$

$$\begin{aligned} \text{Volume} &= 27 \times 13 \times 13 \\ &= 4,563 \text{ cubic inches} \end{aligned}$$

Order of operation does not matter.



Josefina's cat, Whiskers, climbed into a tree and was too scared to come down. Her dad climbed up a ladder to bring down Whiskers. If Josefina's dad had to climb up 15 ladder steps and the steps are 32 centimeters apart, how high up did Whiskers go?

$$15 \times 32 = 480$$

Whiskers went up 480 cms.

Julie is teaching her parrot, Romeo, how to say new words. If she teaches him 11 words each month. How many words will Romeo learn in a year?

$$11 \times 12 = 132$$

Romeo will learn 132 words in a year.



# Answer Sheet

## 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?

$$(16 \text{ gallons} - 3 \text{ gallons}) = 13 \text{ gallons}$$
$$13 \times \$3 \text{ per gallon} = \$39$$

**It cost \$39 to fill the 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)

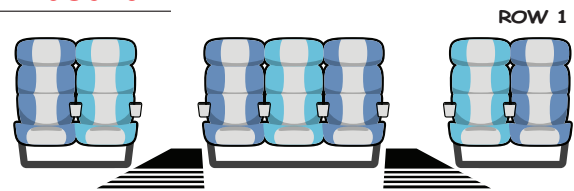
$$15 \text{ min.} \times 8 \text{ quarters} = 120 \text{ min.}$$
$$5 \text{ min.} \times 12 \text{ dimes} = 60 \text{ min.}$$
$$2 \text{ min.} \times 14 \text{ nickels} = 28 \text{ min.}$$
$$120 + 60 + 28 = 3 \text{ hours} \& 28 \text{ min.}$$

**The Smiths do not have enough money to park for 4 hours.**

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?

$$51 \text{ rows} \times 7 \text{ seats} = 357 \text{ seats total}$$
$$357 - 13 = 344$$

**There are 344 passengers 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?

$$14 \text{ hours} \times 512 \text{ miles} = 7,168$$

**They traveled 7,168 miles.**



# Answer Sheet

Math  
Algebra

## Finding Factors

Answer  
Sheet

Factors are numbers that you multiply together to get another number.  
For example, 2 multiplied by 4 equals 8. So 2 and 4 are the factors of 8.

Find the factors of the numbers below. See the example.

$$10 = \underline{2 \times 5}$$

$$18 = \underline{3 \times 6}$$

$$24 = \underline{4 \times 6}$$

$$30 = \underline{5 \times 6}$$

$$32 = \underline{4 \times 8}$$

$$39 = \underline{3 \times 13}$$

Find the missing factors.

$$15 = 3 \times \boxed{5}$$

$$21 = 3 \times \boxed{7}$$

$$45 = 9 \times \boxed{5}$$

$$42 = 7 \times \boxed{6}$$

$$36 = 2 \times 2 \times 3 \times \boxed{3}$$

$$60 = 2 \times 3 \times 2 \times \boxed{5}$$

$$75 = 5 \times 3 \times \boxed{5}$$

\* When the factor is a prime number, it is called a prime factor.



# Answer Sheet

Math  
Multiplication

## Multiply Three Numbers

Here's a trick! First, multiply the first number by the second one. Then multiply the product of the first two numbers by the third number. Find the product of these multiplication sentences. The first one is done for you.

$3 \times 6 \times 2$

$18 \times 2$

$36$

$5 \times 4 \times 3$

$20 \times 3$

$60$

$2 \times 4 \times 6$

$8 \times 6$

$48$

$3 \times 5 \times 3$

$15 \times 3$

$45$

$4 \times 3 \times 2 \times 2$

$12 \times 2 \times 2$

$24 \times 2$

$48$

$6 \times 5 \times 4 \times 3$

$30 \times 4 \times 3$

$120 \times 3$

$360$

