

# MULTIPLICATION

Mania

**3<sup>RD</sup>**  
Grade

**YAY!**  
Numbers party!



# Table of Contents

---

## Multiplication Mania

- Multiplication Table \*
- Multiplying by One \*
- Multiplying by Two \*
- Multiplying by Three \*
- Multiplying by Four \*
- Multiplying by Five \*
- Multiplying by Six \*
- Multiplying by Seven \*
- Multiplying by Eight \*
- Multiplying by Nine \*
- Multiplying by Ten \*
- Multiplication Color by Number: Parrot \*
- Multiplication Color by Number: Chameleon \*
- Toy Town Multiplication \*
- Multiplication Color by Number: Tree Frog \*
- Multiplication Color by Number: Butterfly \*
- Baseball Multiplication #3 \*
- Multiplication Mix-Up \*
- Numbers Party! \*
- It's the Same! \*
- Commutative \*
- It's Associative \*

*Certificate of Completion*

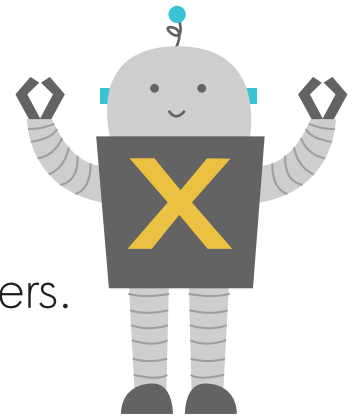
*Answer Sheets*

*\* Has an Answer Sheet*

Want more workbooks? Join [Education.com Plus](http://www.education.com/education-plus/) to save time and money.  
<http://www.education.com/education-plus/>

# Multiplication Table

Robert the Multiplication Robot has lost a few of his screws! Help him complete the **multiplication table** by filling in the missing numbers.



x	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0												
1		1											
2			4										
3										27			36
4				12									
5								35				55	
6							36		48				
7	0				28								
8						40							
9													
10													
11													
12													144



# Multiplying by One

Find the product.

$$\begin{array}{r} 1 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 1 \\ \hline \end{array}$$

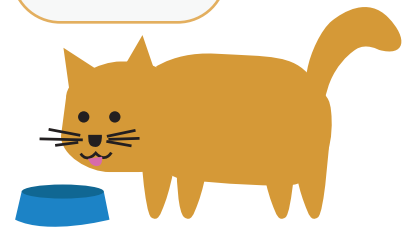
$$\begin{array}{r} 5 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 6 \\ \hline \end{array}$$

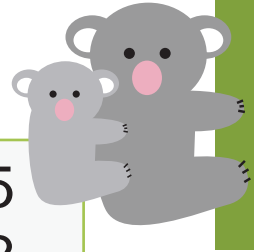
Fill in the multiplication chart.



x	1	2	3	4	5	6	7	8	9	10
1										

# Multiplying by Two

Find the product.



$$\begin{array}{r} 3 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$$

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

$$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 0 \\ \hline \end{array}$$

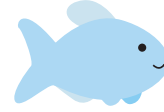
$$\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$$

Fill in the multiplication chart.

x	1	2	3	4	5	6	7	8	9	10
2										

# Multiplying by Three

Find the product.

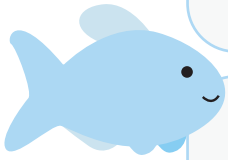


$$\begin{array}{r} 3 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$$



$$\begin{array}{r} 3 \\ \times 0 \\ \hline \end{array}$$

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

$$\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$$

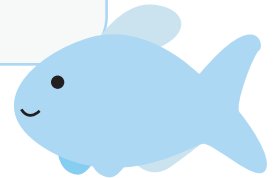
$$\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 1 \\ \hline \end{array}$$



Fill in the multiplication chart.

x	1	2	3	4	5	6	7	8	9	10
3										

# Multiplying by Four

Find the product.

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 4 \\ \hline \end{array}$$

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

$$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$

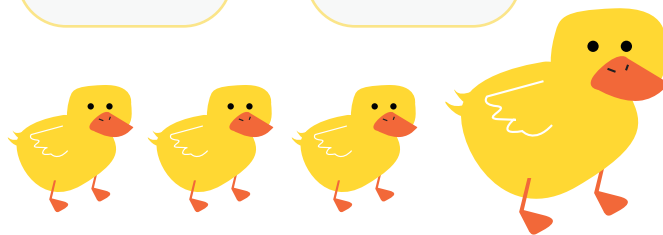
$$\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$$

Fill in the multiplication chart.



x	1	2	3	4	5	6	7	8	9	10
4										

# Multiplying by Five

Find the product.



$$\begin{array}{r} 5 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \times 5 \\ \hline \end{array}$$

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

$$\begin{array}{r} 1 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array}$$



$$\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$$

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

$$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$$



$$\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 5 \\ \hline \end{array}$$

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

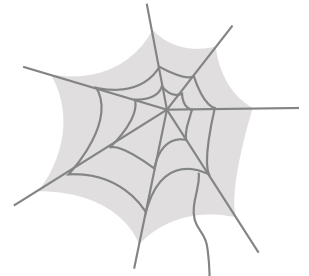


Fill in the multiplication chart.

x	1	2	3	4	5	6	7	8	9	10
5										

# Multiplying by Six

Find the product.



$$\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 6 \\ \hline \end{array}$$

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

$$\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$$



Fill in the multiplication chart.




x	1	2	3	4	5	6	7	8	9	10
6										




# Multiplying by Seven

Find the product.


$$\begin{array}{r} 2 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 7 \\ \hline \end{array}$$



$$\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$$


$$\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$$


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


$$\begin{array}{r} 10 \\ \times 7 \\ \hline \end{array}$$


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

$$\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$$


$$\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$$


$$\begin{array}{r} 10 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 7 \\ \hline \end{array}$$


Fill in the multiplication chart.

x	1	2	3	4	5	6	7	8	9	10
7										

# Multiplying by Eight

Find the product.

$$\begin{array}{r} 1 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 0 \\ \hline \end{array}$$

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

$$\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$$

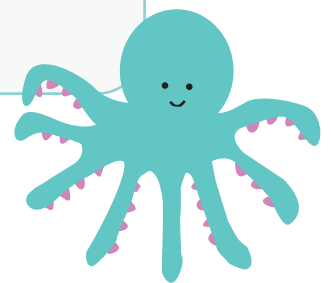
$$\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline \end{array}$$



Fill in the multiplication chart.

x	1	2	3	4	5	6	7	8	9	10
8										

# Multiplying by Nine

Find the product.



$$\begin{array}{r} 9 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$$



Fill in the multiplication chart.

x	1	2	3	4	5	6	7	8	9	10
9										

# Multiplying by Ten

Find the product.

10  
 $\times 1$   
—

2  
 $\times 10$   
—

10  
 $\times 4$   
—

10  
 $\times 3$   
—

4  
 $\times 10$   
—

3  
 $\times 10$   
—

10  
 $\times 5$   
—

10  
 $\times 7$   
—

10  
 $\times 8$   
—

6  
 $\times 10$   
—

10  
 $\times 10$   
—

10  
 $\times 2$   
—

9  
 $\times 10$   
—

7  
 $\times 10$   
—

10  
 $\times 6$   
—

5  
 $\times 10$   
—

Fill in the multiplication chart.

$\times$	1	2	3	4	5	6	7	8	9	10
10										

# Multiplication Color By Number

Once you have solved the multiplication problems on the right, you can color in the parrot using the color that is listed under each answer.

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

$1 \times 3 = \underline{\quad}$   
yellow

$9 \times 4 = \underline{\quad}$   
lime green

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

$5 \times 6 = \underline{\quad}$   
blue

$6 \times 7 = \underline{\quad}$   
orange

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

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

# Multiplication Color By Number

Once you have solved the multiplication problems below, you can color in the chameleon using the color that is listed under each answer.

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

pale yellow

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

blue green

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

forest green

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

jade green

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

rust

$$7 \times 6 = \underline{\quad}$$

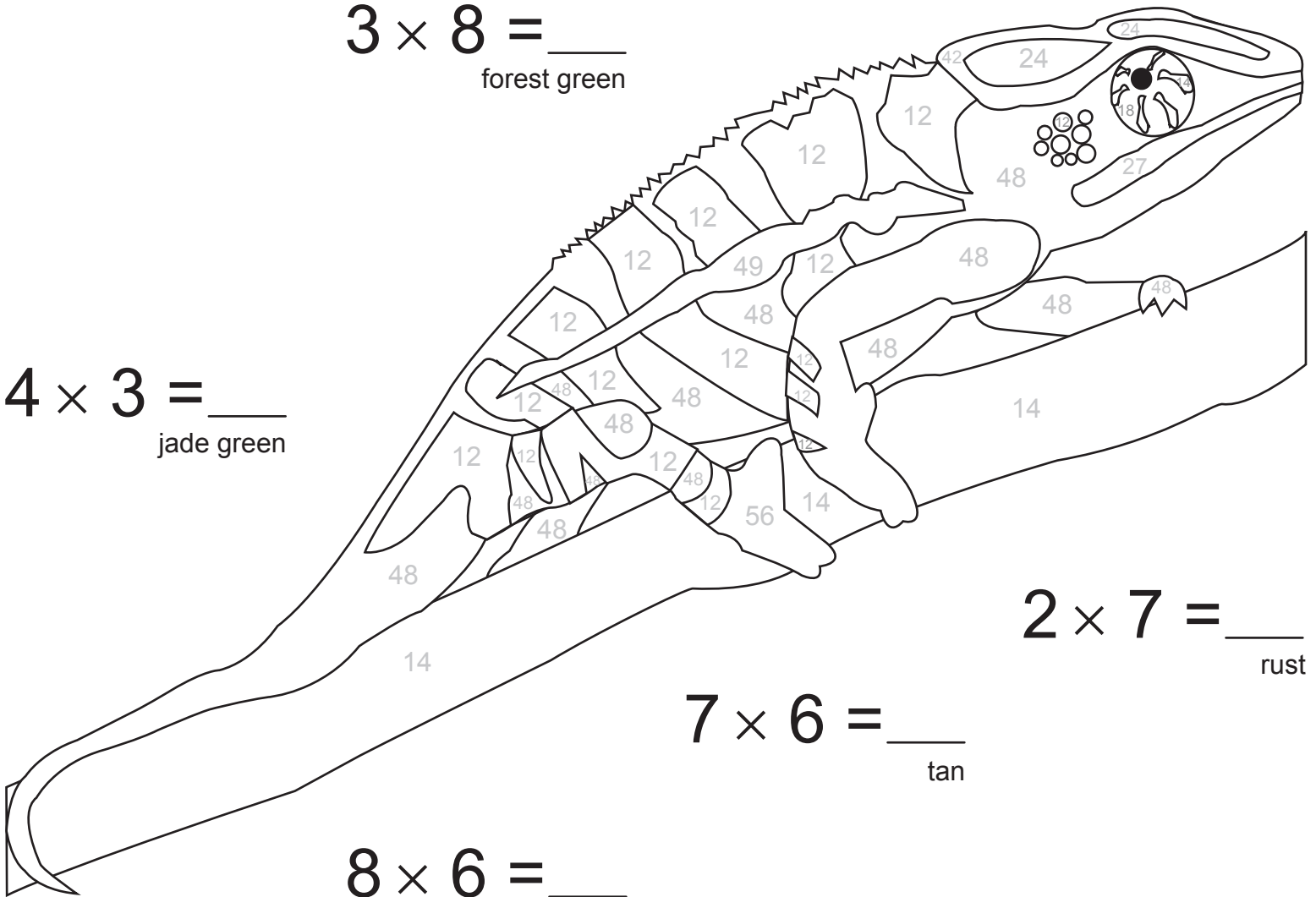
tan

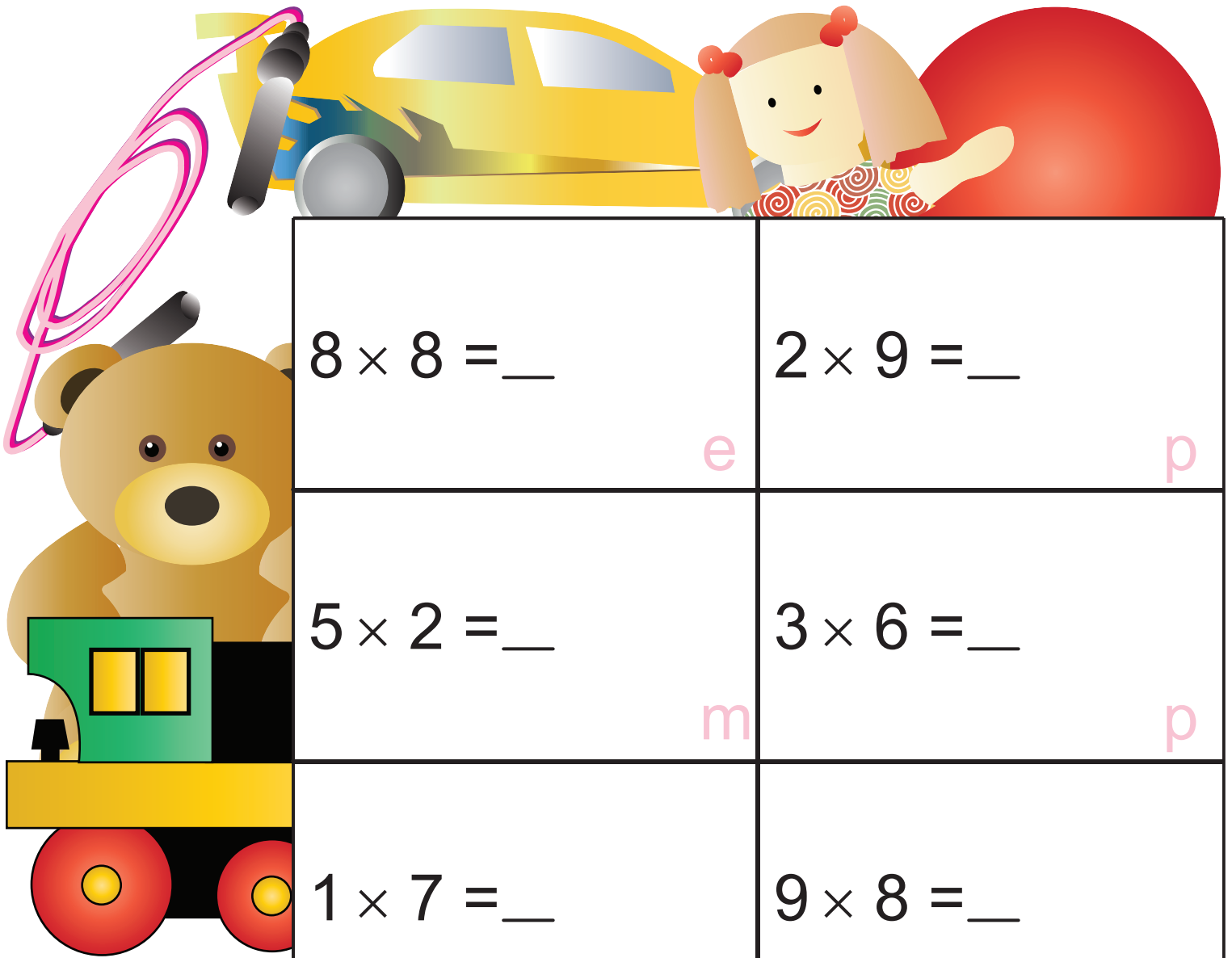
$$8 \times 6 = \underline{\quad}$$

brown

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

cream





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

e

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

p

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

m

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

p

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

u

$9 \times 8 = \underline{\quad}$

o

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

r

$3 \times 2 = \underline{\quad}$

j

## Toy Town Multiplication

Solve each multiplication problem. Then match the numbers beneath each mystery letter to your answers, and write the corresponding letter in each space. What kind of toy did you find?

6

7

10

18

21

72

18

64

# Multiplication Color By Number

Once you have solved the multiplication problems below, you can color in the tree frog using the color that is listed under each answer.

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

lavender

$$8 \times 9 = \underline{\quad}$$

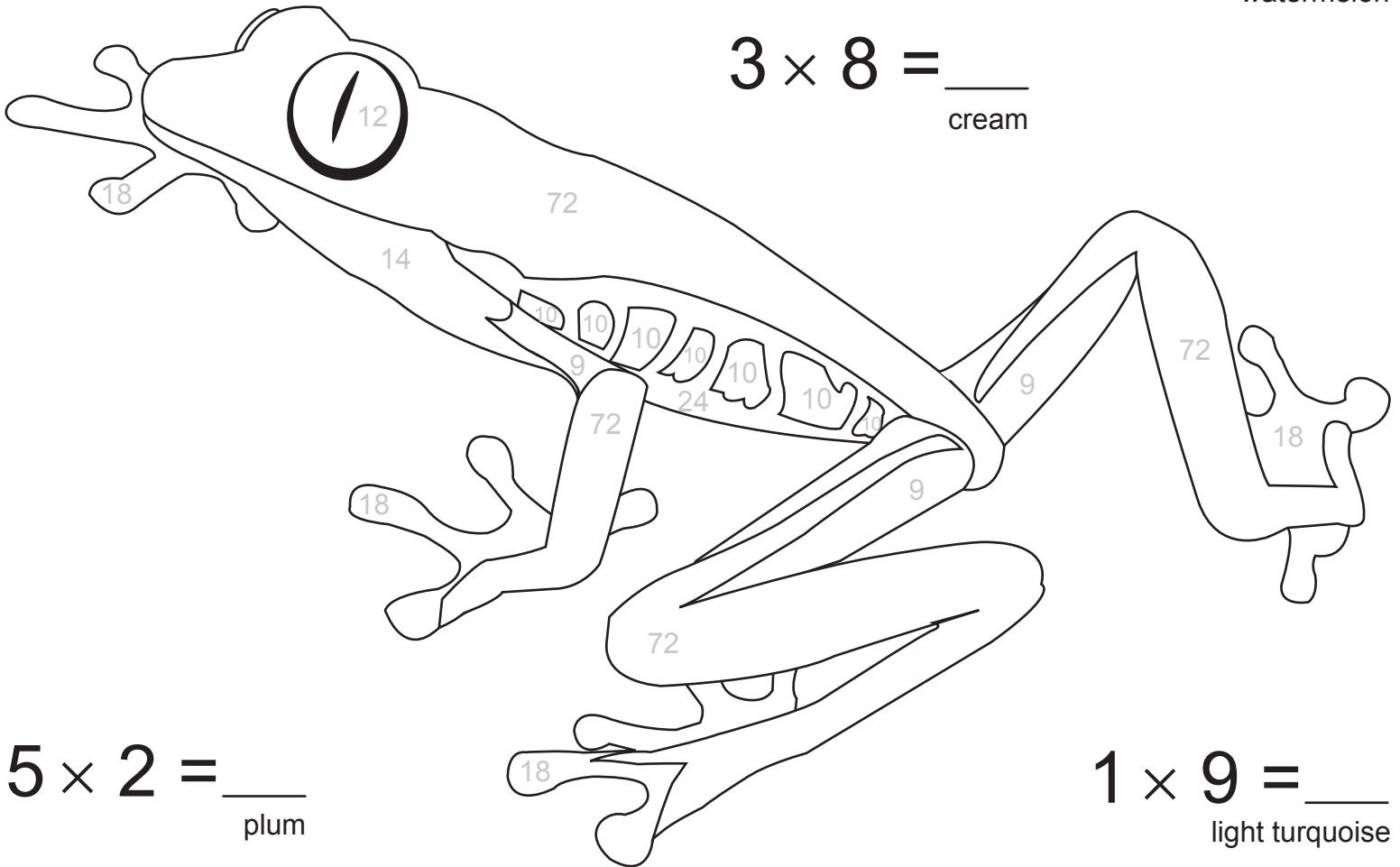
moss green

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

watermelon

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

cream



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

plum

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

light turquoise

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

light pink

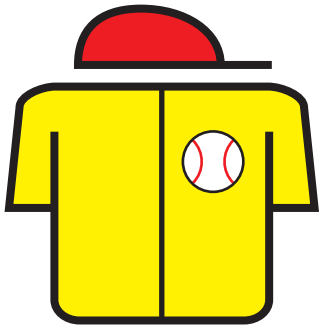
$$9 \times 2 = \underline{\quad}$$

watermelon

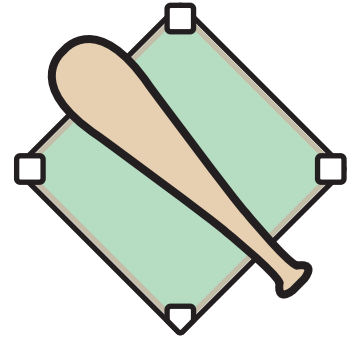


# BASEBALL

# MULTIPLICATION #3



Batter up! Step up to the plate and swing for the fences. Solve the following multiplication problems and you'll be an All-Star!



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

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

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

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

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

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

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

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

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

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

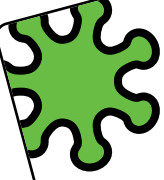


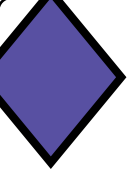


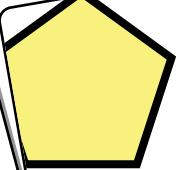
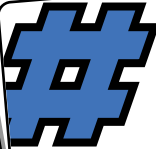


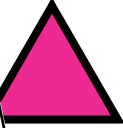

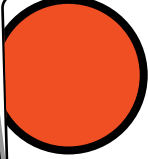
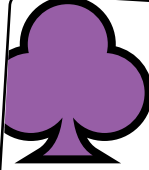
$5 \times 0 = \underline{\quad}$

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















# Multiplication Mix-Up

# 3<sup>rd</sup> Grade

There are 7 pairs of matching cards. Solve the equations then draw a line between symbols with the matching answers in the key below.

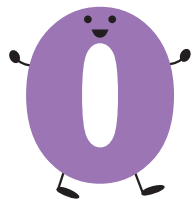
 $\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$	 $\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$	 $\begin{array}{r} 14 \\ \times 2 \\ \hline \end{array}$	 $\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$	 $\begin{array}{r} 12 \\ \times 7 \\ \hline \end{array}$
 $\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$	 $\begin{array}{r} 16 \\ \times 4 \\ \hline \end{array}$	 $\begin{array}{r} 10 \\ \times 6 \\ \hline \end{array}$	 $\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$	 $\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$
 $\begin{array}{r} 14 \\ \times 6 \\ \hline \end{array}$	 $\begin{array}{r} 12 \\ \times 5 \\ \hline \end{array}$	 $\begin{array}{r} 12 \\ \times 2 \\ \hline \end{array}$	 $\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$	

Key

# Numbers Party!

All of the numbers are off partying! It's up to you to complete each equation by writing the missing digit or digits in the box.



$3 \times \square = 6$

$\square \times 6 = 48$

$6 \times \square = 18$

$\square \times 4 = 8$

$\square \times 8 = 32$

$10 \times 1 = \square$

$4 \times \square = 20$

$5 \times 6 = \square$

$\square \times 2 = 14$

$6 \times \square = 0$

$9 \times \square = 27$

$7 \times 8 = \square$

$5 \times 5 = \square$

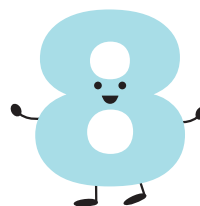
$\square \times 7 = 42$

$8 \times \square = 64$

$6 \times 9 = \square$

$7 \times \square = 28$

$\square \times 5 = 45$

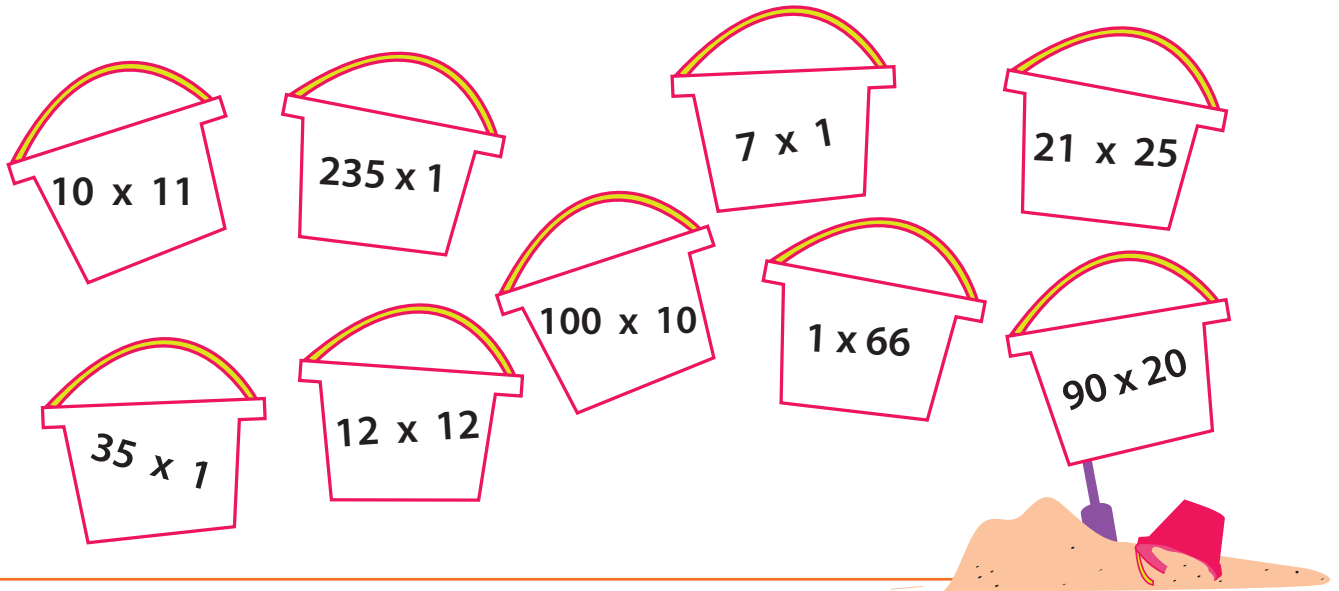


# It's The Same!

One of the multiplication properties is *identity*, which means any number multiplied by 1 equals itself.

$$A \times 1 = A$$

Now color in the buckets that express the identity property.



Find the missing number. Notice the identity property.

$$\boxed{\phantom{00}} \times 1 = 4$$

$$0.75 \times \boxed{\phantom{00}} = 0.75$$

$$25 \times \boxed{\phantom{00}} = 25$$

$$\boxed{\phantom{00}} \times 1 = \frac{8}{14}$$

Find the products of these equations. Notice the identity property.

$$(68 + 15) \times 1 = \boxed{\phantom{000}}$$

$$(100 - 55) \times 1 = \boxed{\phantom{000}}$$

$$(3 + 20 + 11 + 4) \times 1 = \boxed{\phantom{0000}}$$

# Commutative

One of the multiplication properties is *commutative*, which means that you can multiply numbers in any order and get the same product.

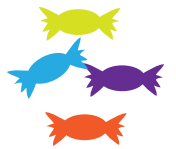
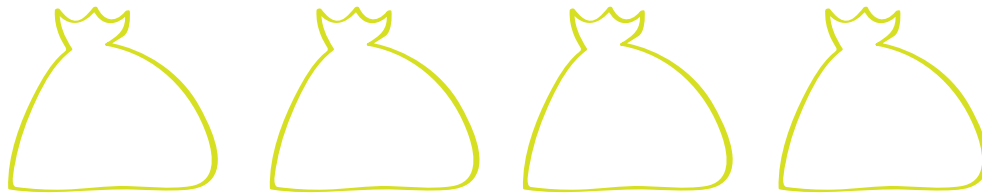
$$A \times B = B \times A$$

Find the missing number in the equations following the commutative property rule. Then answer the questions below.

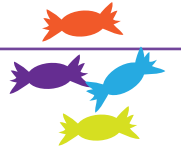
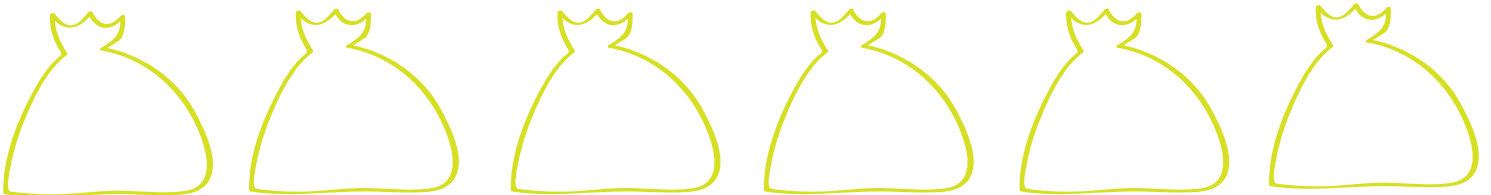
$7 \times 5 = 5 \times \square$

$10 \times 11 = 11 \times \square$

Julia has four bags of candy. Each bag contains six pieces of candy. Draw the pieces in each bag. How many pieces does Julia have?



Tommy has six bags of candies. Each bag contains five pieces of candy. Draw the pieces in each bag. How many pieces does Tommy have?



Write the multiplication equations for Julia and Tommy's candy using the commutative property.

$\square \times \square = \square \times \square$

$\square \times \square = \square \times \square$

# It's Associative!

One of the multiplication properties is *associative*, which means you can group the factors in a multiplication equation and still get the same product.

$$A \times (B \times C) = (A \times B) \times C$$

Find the missing number according to the associative property.

$$4 \times (3 \times 2) = (4 \times 3) \times \boxed{\phantom{00}}$$

$$6 \times (2 \times 5) = (6 \times 2) \times \boxed{\phantom{00}}$$

$$(20 \times 5) \times 11 = 20 \times (11 \times \boxed{\phantom{00}})$$

---

Find the product of these numbers.

$$7 \times (2 \times 1) = \boxed{\phantom{00}}$$

$$2 \times (7 \times 1) = \boxed{\phantom{00}}$$

---

$$10 \times (3 \times 4) = 10 \times \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

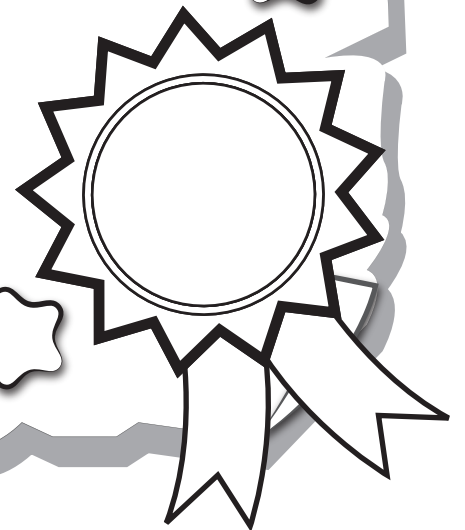
$$(10 \times 3) \times 4 = \boxed{\phantom{00}} \times 4 = \boxed{\phantom{00}}$$

When you group the factors differently, do the two equations have the same product?

Great job!

---

is an Education.com math superstar



# Answer Sheets

---

## Multiplication Mania


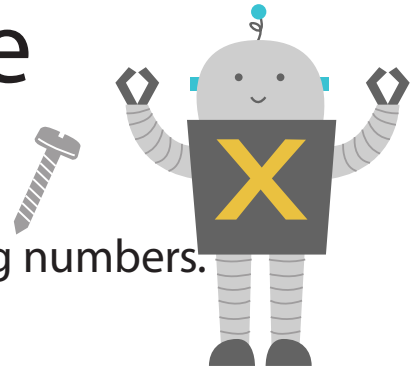
Multiplication Table  
Multiplying by One  
Multiplying by Two  
Multiplying by Three  
Multiplying by Four  
Multiplying by Five  
Multiplying by Six  
Multiplying by Seven  
Multiplying by Eight  
Multiplying by Nine  
Multiplying by Ten  
Multiplication Color by Number: Parrot  
Multiplication Color by Number: Chameleon  
Toy Town Multiplication  
Multiplication Color by Number: Tree Frog  
Multiplication Color by Number: Butterfly  
Baseball Multiplication #3  
Multiplication Mix-Up  
Numbers Party!  
It's the Same!  
Commutative  
It's Associative

Want more workbooks? Join Education.com Plus to save time and money.  
<http://www.education.com/education-plus/>


# Answer Sheet

## Multiplication Table

Robert the Multiplication Robot has lost a few of his screws! Help him complete the multiplication table by filling in the missing numbers.



x	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10	11	12
2	0	2	4	6	8	10	12	14	16	18	20	22	24
3	0	3	6	9	12	15	18	21	24	27	30	33	36
4	0	4	8	12	16	20	24	28	32	36	40	44	48
5	0	5	10	15	20	25	30	35	40	45	50	55	60
6	0	6	12	18	24	30	36	42	48	54	60	66	72
7	0	7	14	21	28	35	42	49	56	63	70	77	84
8	0	8	16	24	32	40	48	56	64	72	80	88	96
9	0	9	18	27	36	45	54	63	72	81	90	99	108
10	0	10	20	30	40	50	60	70	80	90	100	110	120
11	0	11	22	33	44	55	66	77	88	99	110	121	132
12	0	12	24	36	48	60	72	84	96	108	120	132	144



# Answer Sheet

## Multiplying by One

Find the product.

$$\begin{array}{r} 1 \\ \times 4 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 6 \\ \times 1 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 1 \\ \times 5 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 1 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 1 \\ \times 2 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 3 \\ \times 1 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 8 \\ \times 1 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 1 \\ \times 7 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 9 \\ \times 1 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 10 \\ \times 1 \\ \hline 10 \end{array}$$

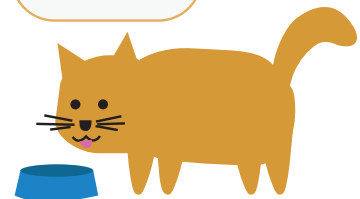
$$\begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 1 \\ \times 8 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array}$$

Fill in the multiplication chart.

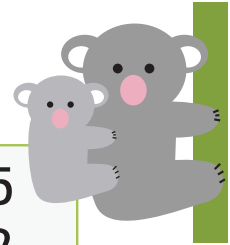


x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10

# Answer Sheet

## Multiplying by Two

Find the product.



$$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 2 \\ \times 1 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 2 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$$

Fill in the multiplication chart.

x	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20

# Answer Sheet

## Multiplying by Three

Find the product.

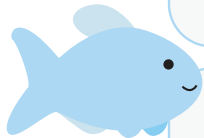


$$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$$



$$\begin{array}{r} 3 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$$

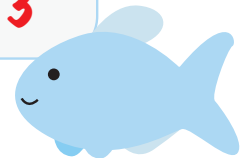
$$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 3 \\ \times 1 \\ \hline 3 \end{array}$$



Fill in the multiplication chart.

x	1	2	3	4	5	6	7	8	9	10
3	3	6	9	12	15	18	21	24	27	30

# Answer Sheet

## Multiplying by Four

Find the product.

$$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 1 \\ \times 4 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 4 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$$

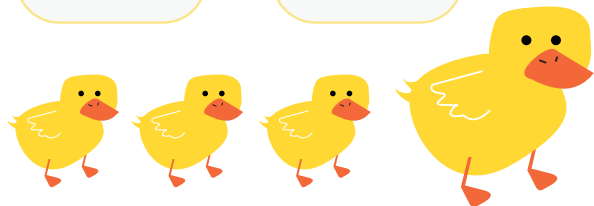
$$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$$

Fill in the multiplication chart.



x	1	2	3	4	5	6	7	8	9	10
4	4	8	12	16	20	24	28	32	36	40

# Answer Sheet

## Multiplying by Five

Find the product.



$$\begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 0 \\ \times 5 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 1 \\ \times 5 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$$



$$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$$

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

$$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$$



$$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array}$$

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



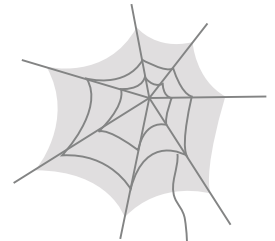
Fill in the multiplication chart.

x	1	2	3	4	5	6	7	8	9	10
5	5	10	15	20	25	30	35	40	45	50

# Answer Sheet

## Multiplying by Six

Find the product.



$$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 6 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 6 \\ \times 1 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$$

$$\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$$

Fill in the multiplication chart.



x	1	2	3	4	5	6	7	8	9	10
6	6	12	18	24	30	36	42	48	54	60



# Answer Sheet

## Multiplying by Seven

Find the product.

$$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 7 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 1 \\ \times 7 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$$

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

$$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$$

Fill in the multiplication chart.

x	1	2	3	4	5	6	7	8	9	10
7	7	14	21	28	35	42	49	56	63	70

# Answer Sheet

## Multiplying by Eight

Find the product.

$$\begin{array}{r} 1 \\ \times 8 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 8 \\ \times 1 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$$

$$\begin{array}{r} 8 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$$



Fill in the multiplication chart.

x	1	2	3	4	5	6	7	8	9	10
8	8	16	24	32	40	48	56	64	72	80

# Answer Sheet

## Multiplying by Nine

Find the product.



$$\begin{array}{r} 9 \\ \times 1 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 0 \\ \times 9 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 1 \\ \times 9 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$$

$$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$$

$$\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$$



Fill in the multiplication chart.

x	1	2	3	4	5	6	7	8	9	10
9	9	18	27	36	45	54	63	72	81	90

# Answer Sheet

## Multiplying by Ten

Find the product.

10  
 $\times 1$   

---

**10**

2  
 $\times 10$   

---

**20**

10  
 $\times 4$   

---

**40**

10  
 $\times 3$   

---

**30**

4  
 $\times 10$   

---

**40**

3  
 $\times 10$   

---

**30**

10  
 $\times 5$   

---

**50**

10  
 $\times 7$   

---

**70**

10  
 $\times 8$   

---

**80**

6  
 $\times 10$   

---

**60**

10  
 $\times 10$   

---

**100**

10  
 $\times 2$   

---

**20**

9  
 $\times 10$   

---

**90**

7  
 $\times 10$   

---

**70**

10  
 $\times 6$   

---

**60**

5  
 $\times 10$   

---

**50**

Fill in the multiplication chart.

x	1	2	3	4	5	6	7	8	9	10
10	<b>10</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>	<b>100</b>

# Answer Sheet

## Multiplication Color By Number

Once you have solved the multiplication problems on the right, you can color in the parrot using the color that is listed under each answer.

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

$1 \times 3 = \underline{3}$   
yellow

$9 \times 4 = \underline{36}$   
lime green

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

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

$6 \times 7 = \underline{42}$   
orange

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

$7 \times 7 = \underline{49}$   
tan

# Answer Sheet

## Multiplication Color By Number

Once you have solved the multiplication problems below, you can color in the chameleon using the color that is listed under each answer.

$$9 \times 2 = \underline{18} \quad 7 \times 7 = \underline{49}$$

pale yellow                      blue green

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

forest green

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

jade green

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

rust

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

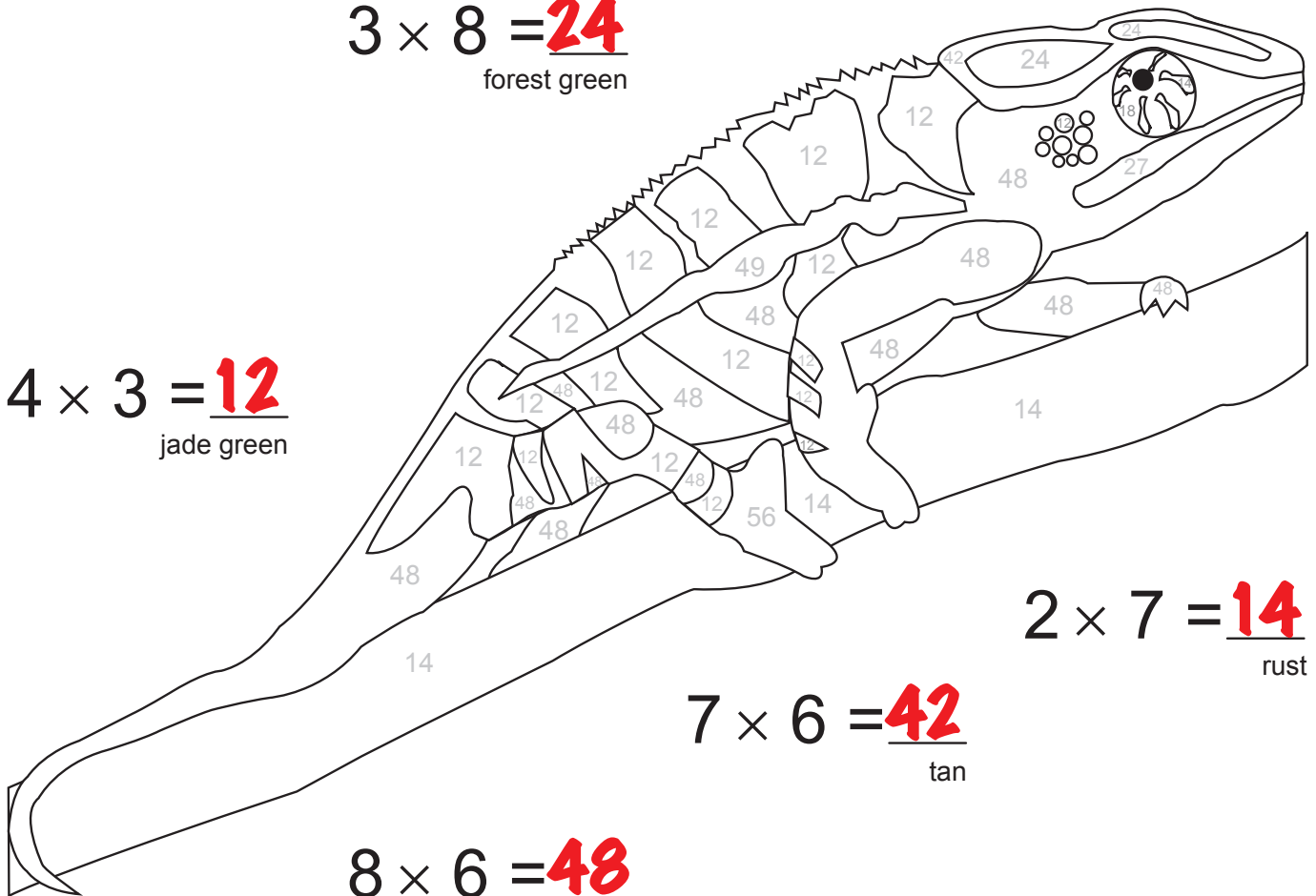
tan

$$8 \times 6 = \underline{48}$$

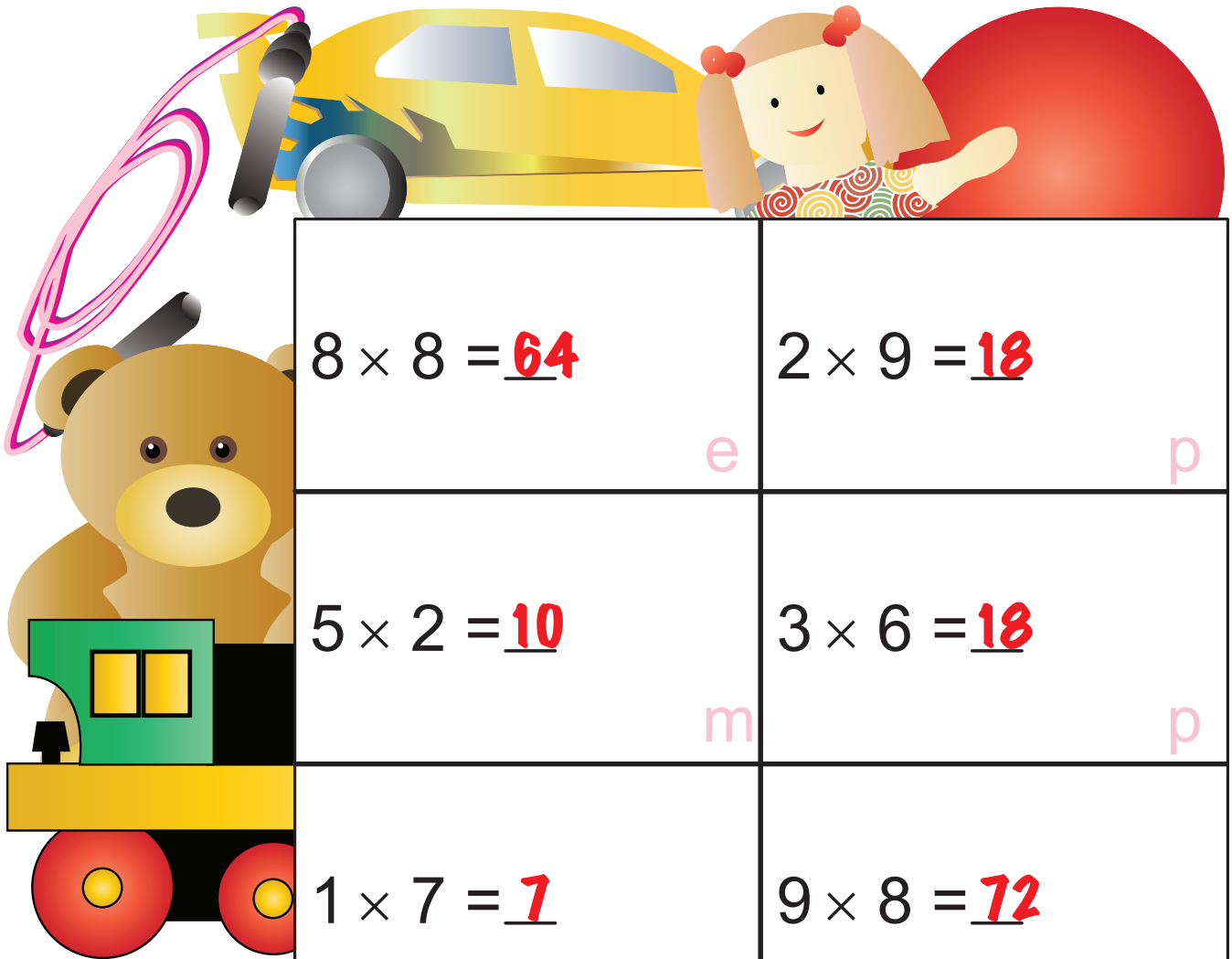
brown

$$3 \times 9 = \underline{27}$$

cream



# Answer Sheet



$8 \times 8 = \underline{64}$

e

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

p

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

m

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

p

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

u

$9 \times 8 = \underline{72}$

o

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

r

$3 \times 2 = \underline{6}$

j

## Toy Town Multiplication

Solve each multiplication problem. Then match the numbers beneath each mystery letter to your answers, and write the corresponding letter in each space. What kind of toy did you find?

**J**

6

**U**

7

**M**

10

**P**

18

**R**

21

**O**

72

**P**

18

**E**

64

# Answer Sheet

## Multiplication Color By Number

Once you have solved the multiplication problems below, you can color in the tree frog using the color that is listed under each answer.

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

lavender

$$8 \times 9 = \underline{72}$$

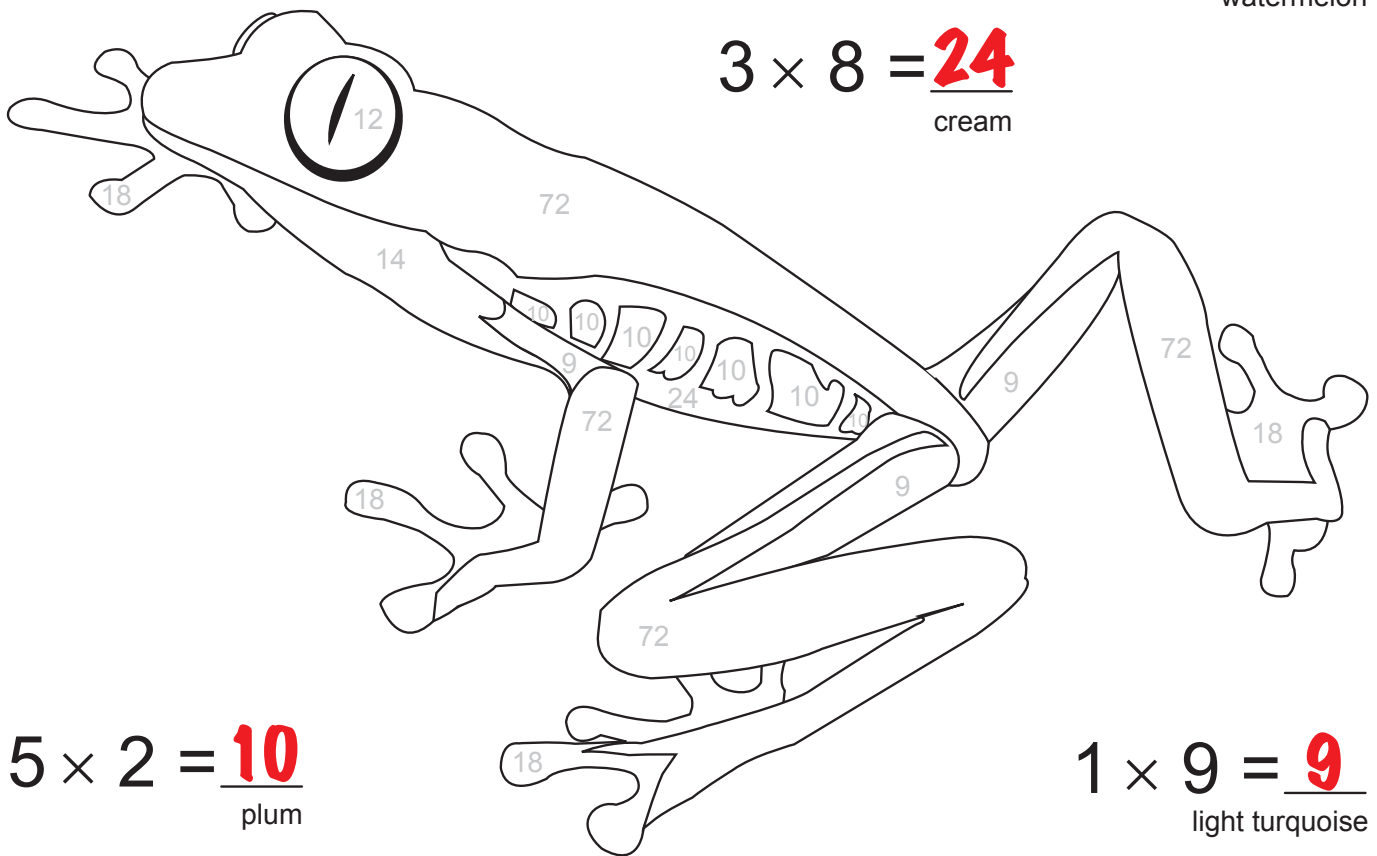
moss green

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

watermelon

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

cream



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

plum

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

light turquoise

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

light pink

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

watermelon

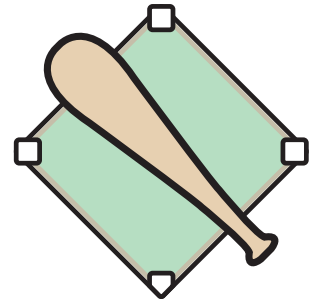


# Answer Sheet

## BASEBALL MULTIPLICATION #3



Batter up! Step up to the plate and swing for the fences. Solve the following multiplication problems and you'll be an All-Star!



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

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

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

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

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

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

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

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

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

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

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

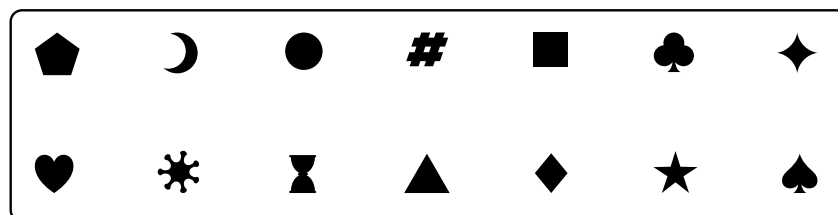
$8 \times 3 = \underline{24}$

# Answer Sheet

3<sup>rd</sup>  
Grade

## Multiplication Mix-Up

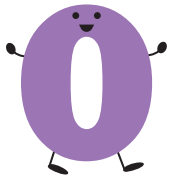
There are 7 pairs of matching cards. Solve the equations then draw a line between the cards with the matching answers.



# Answer Sheet

## Numbers Party!

All of the numbers are off partying! It's up to you to complete each equation by writing the missing digit or digits in the box.



$$3 \times \boxed{2} = 6$$

$$\boxed{8} \times 6 = 48$$

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

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

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

$$10 \times 1 = \boxed{10}$$

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

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

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

$$6 \times \boxed{0} = 0$$

$$9 \times \boxed{3} = 27$$

$$7 \times 8 = \boxed{56}$$

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

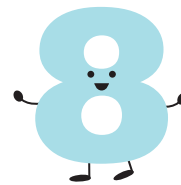
$$\boxed{6} \times 7 = 42$$

$$8 \times \boxed{8} = 64$$

$$6 \times 9 = \boxed{54}$$

$$7 \times \boxed{4} = 28$$

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



# Answer Sheet

3rd  
Grade

Math

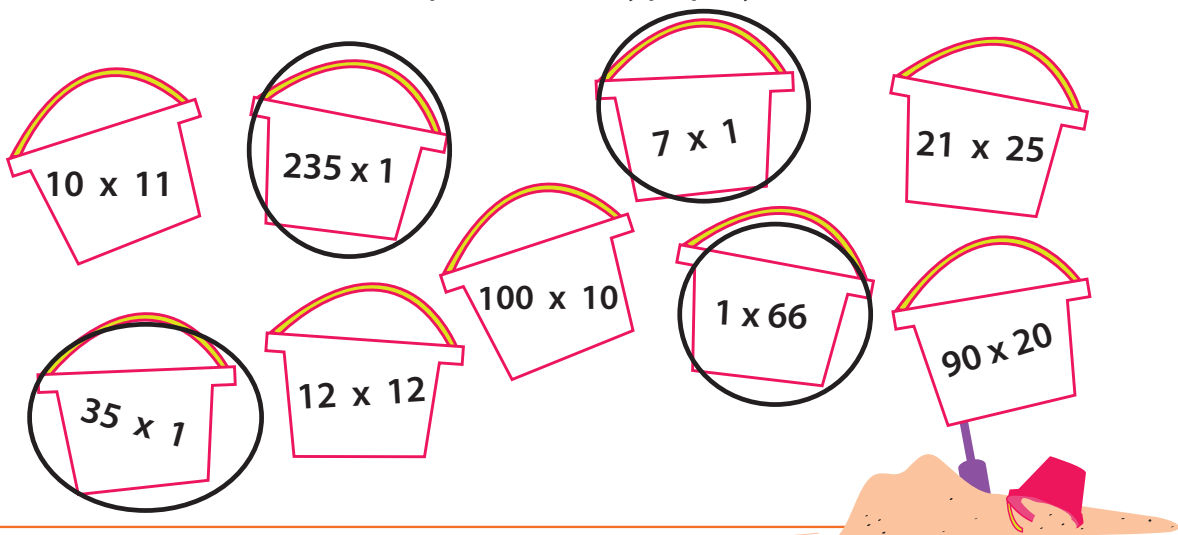
Multiplication

## It's The Same!

One of the multiplication properties is *identity*, which means any number multiplied by 1 equals itself.

$$A \times 1 = A$$

Now color in the buckets that express the identity property.



Find the missing number. Notice the identity property.

$$4 \times 1 = 4$$

$$0.75 \times 1 = 0.75$$

$$25 \times 1 = 25$$

$$\frac{8}{14} \times 1 = \frac{8}{14}$$

Find the products of these equations. Notice the identity property.

$$(68 + 15) \times 1 = 83$$

$$(100 - 55) \times 1 = 45$$

$$(3 + 20 + 11 + 4) \times 1 =$$

38

# Answer Sheet

Math

Multiplication

## Commutative

One of the multiplication properties is *commutative*, which means that you can multiply numbers in any order and get the same product.

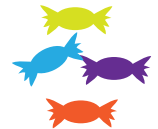
$$A \times B = B \times A$$

Find the missing number in the equations following the commutative property rule. Then answer the questions below.

$$7 \times 5 = 5 \times \boxed{7}$$

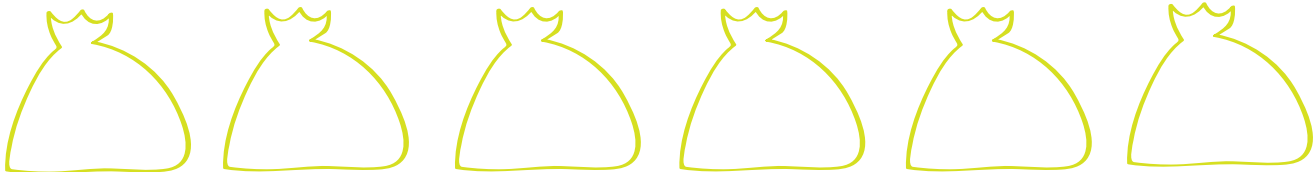
$$10 \times 11 = 11 \times \boxed{10}$$

Julia has four bags of candy. Each bag contains six pieces of candy. Draw the pieces in each bag. How many pieces does Julia have?



**Julia has 24 pieces of candy.**

Tommy has six bags of candies. Each bag contains five pieces of candy. Draw the pieces in each bag. How many pieces does Tommy have?



**Tommy has 30 pieces of candy.**

Write the multiplication equations for Julia and Tommy's candy using the commutative property.

$$\boxed{4} \times \boxed{6} = \boxed{6} \times \boxed{4}$$

$$\boxed{6} \times \boxed{5} = \boxed{5} \times \boxed{6}$$

# Answer Sheet

Math

Multiplication

## It's Associative!

One of the multiplication properties is *associative*, which means you can group the factors in a multiplication equation and still get the same product.

$$A \times (B \times C) = (A \times B) \times C$$

Find the missing number according to the associative property.

$$4 \times (3 \times 2) = (4 \times 3) \times 2$$

$$6 \times (2 \times 5) = (6 \times 2) \times 5$$

$$(20 \times 5) \times 11 = 20 \times (11 \times 5)$$

Find the product of these numbers.

$$7 \times (2 \times 1) = 14$$

$$2 \times (7 \times 1) = 14$$

$$10 \times (3 \times 4) = 10 \times 12 = 120$$

$$(10 \times 3) \times 4 = 30 \times 4 = 120$$

When you group the factors differently, do the two equations have the same product?

**YES**

