MULTIPLICATION Mania

3RD Grade

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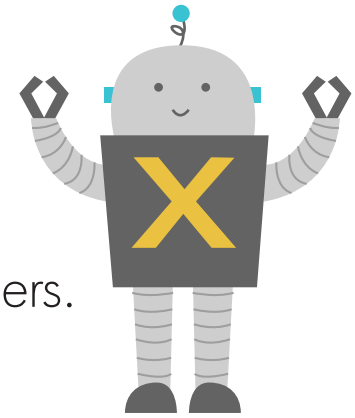
Multiplication Mania

** Has an 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												
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

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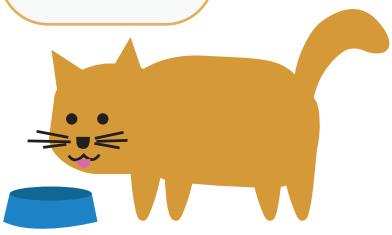
Multiplying by One

Find the **product**.

1 × 4 =	6 × 1 =	1 × 5 =	7 × 1 =
1 × 0 =	1 × 2 =	3 × 1 =	1 × 1 =
8 × 1 =	1 × 7 =	9 × 1 =	10 × 1 =
5 × 1 =	1 × 3 =	1 × 8 =	1 × 6 =

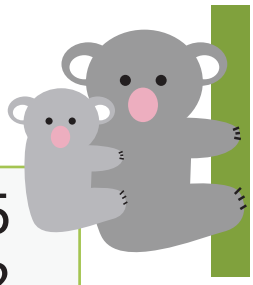


Fill in the multiplication chart.

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

Multiplying by Two

Find the **product**.



3 × 2 =	2 × 1 =	2 × 6 =	5 × 2 =
2 × 7 =	4 × 2 =	2 × 2 =	8 × 2 =
9 × 2 =	10 × 2 =	2 × 5 =	2 × 3 =
6 × 2 =	7 × 2 =	2 × 0 =	7 × 2 =

Fill in the multiplication chart.

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

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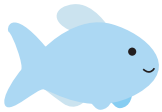
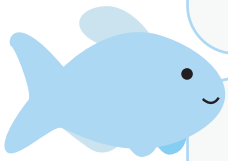
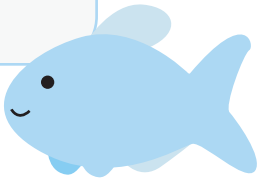
Multiplying by Three

Find the **product**.



3×2	5×3	1×3	3×4
3×0	3×3	6×3	3×8
7×3	10×3	9×3	5×3
8×3	3×6	2×3	3×1





Fill in the multiplication chart.

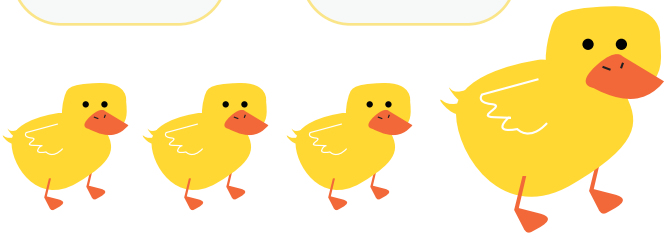
x	1	2	3	4	5	6	7	8	9	10
3										

Multiplying by Four

Find the **product**.

4×2	1×4	4×4	5×4
3×4	4×0	6×4	2×4
4×7	8×4	4×5	9×4
4×6	4×1	10×4	7×4

Fill in the multiplication chart.



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

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Multiplying by Five

Find the **product**.

5 × 1 =	2 × 5 =	5 × 4 =	3 × 5 =
0 × 5 =	5 × 5 =	1 × 5 =	6 × 5 =
5 × 3 =	7 × 5 =	8 × 5 =	5 × 2 =
5 × 9 =	4 × 5 =	10 × 5 =	5 × 7 =

Fill in the multiplication chart.

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

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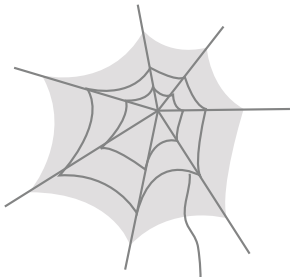
Multiplying by Six

Find the **product**.



3 × 6 =	6 × 4 =	2 × 6 =	6 × 0 =
10 × 6 =	6 × 6 =	9 × 6 =	6 × 7 =
6 × 8 =	5 × 6 =	4 × 6 =	6 × 1 =
6 × 9 =	7 × 6 =	6 × 3 =	6 × 2 =

Fill in the multiplication chart.

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

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Multiplying by Seven

Find the **product**.

2×7	7×3	7×0	1×7
4×7	7×6	8×7	7×4
7×5	10×7	7×7	6×7
7×8	9×7	10×7	3×7

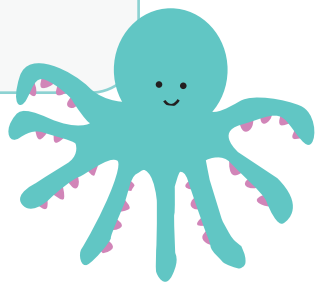
Fill in the multiplication chart.

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

Multiplying by Eight

Find the **product**.

1 × 8	2 × 8	8 × 3	8 × 1
5 × 8	4 × 8	10 × 8	8 × 0
8 × 8	6 × 8	8 × 5	7 × 8
8 × 4	9 × 8	8 × 7	3 × 8



Fill in the multiplication chart.

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

Multiplying by Nine

Find the **product**.

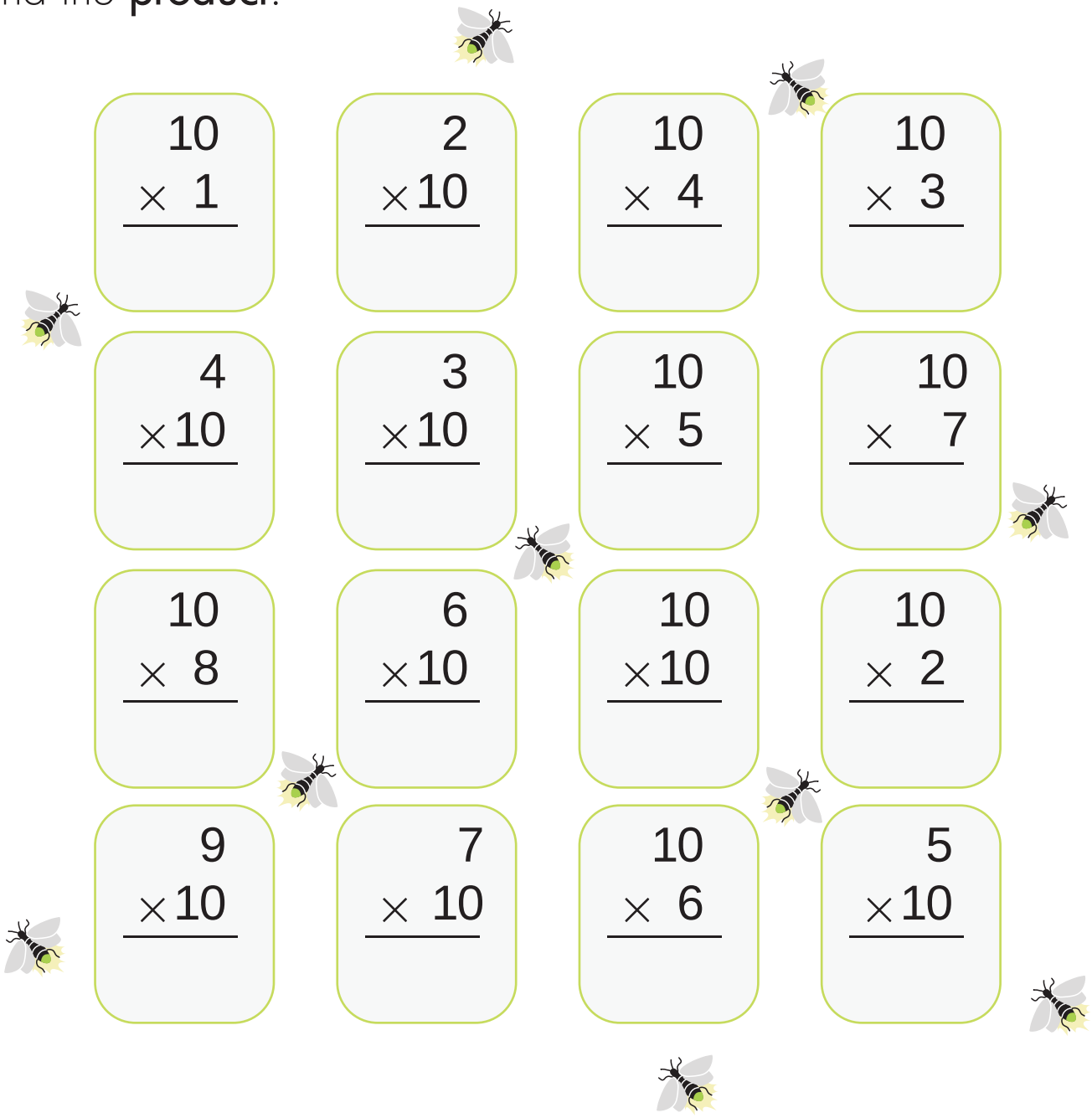
9 × 1	3 × 9	9 × 4	2 × 9
9 × 5	0 × 9	1 × 9	10 × 9
6 × 9	8 × 9	9 × 7	5 × 9
7 × 9	4 × 9	9 ×2	9 × 6

Fill in the multiplication chart.

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

Multiplying by Ten

Find the **product**.



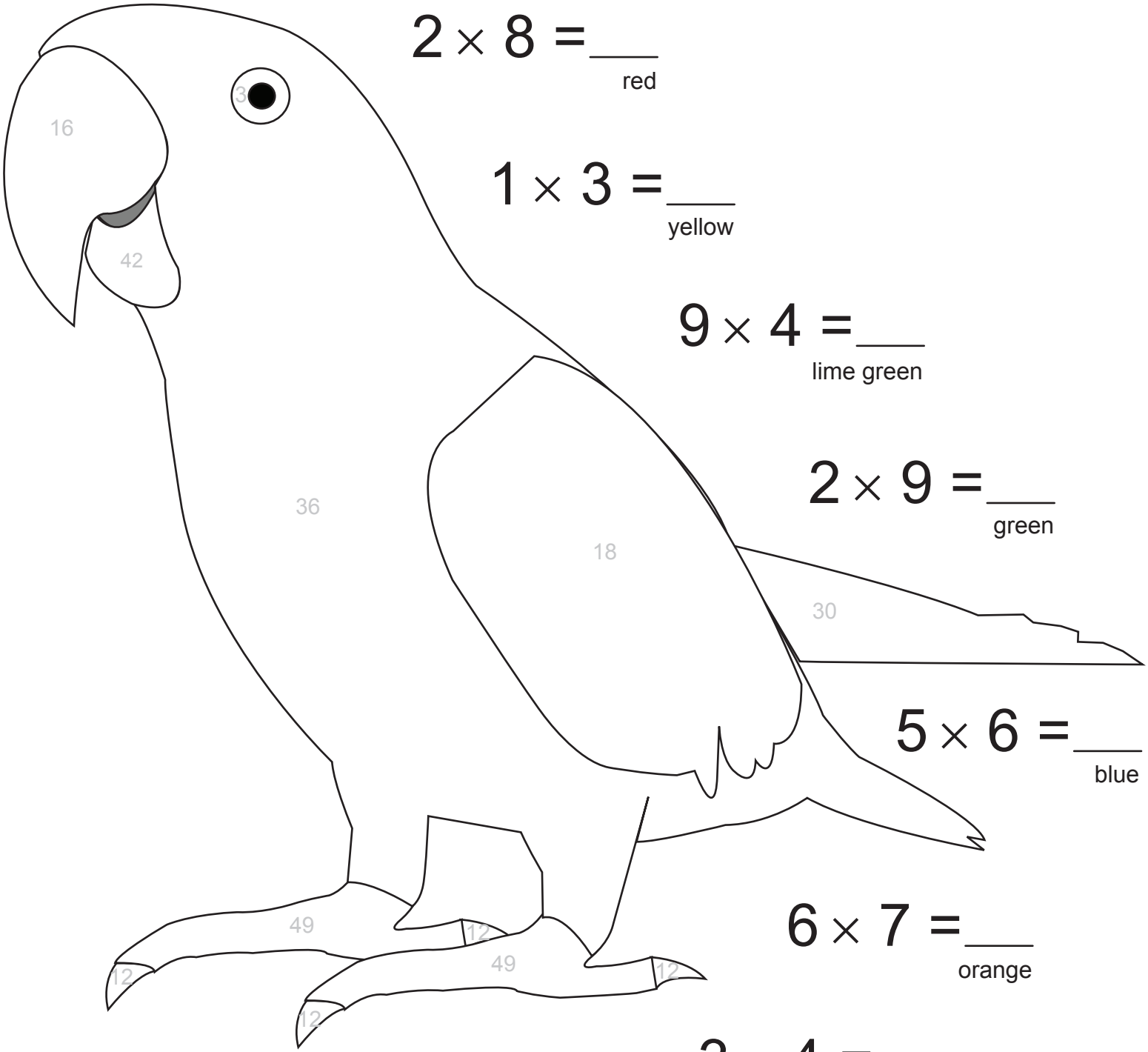
10 × 1 =	2 × 10 =	10 × 4 =	10 × 3 =
4 × 10 =	3 × 10 =	10 × 5 =	10 × 7 =
10 × 8 =	6 × 10 =	10 × 10 =	10 × 2 =
9 × 10 =	7 × 10 =	10 × 6 =	5 × 10 =

Fill in the multiplication chart.

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

Multiplication Color By Number

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



$2 \times 8 =$ ____
red

$1 \times 3 =$ ____
yellow

$9 \times 4 =$ ____
lime green

$2 \times 9 =$ ____
green

$5 \times 6 =$ ____
blue

$6 \times 7 =$ ____
orange

$3 \times 4 =$ ____
brown

$7 \times 7 =$ ____
tan

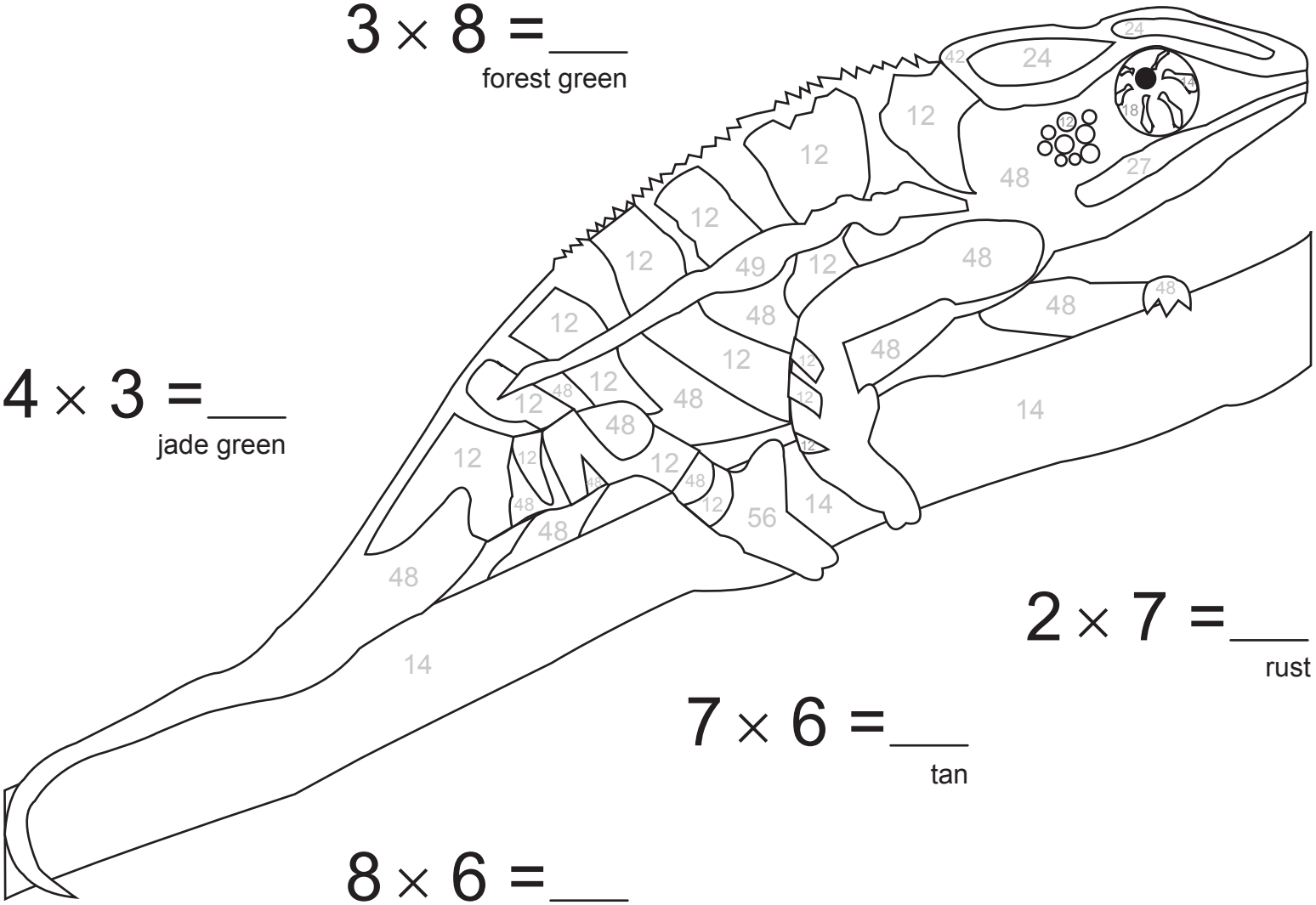
Multiplication Color By Number

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

$9 \times 2 =$ ____
pale yellow

$7 \times 7 =$ ____
blue green

$3 \times 8 =$ ____
forest green



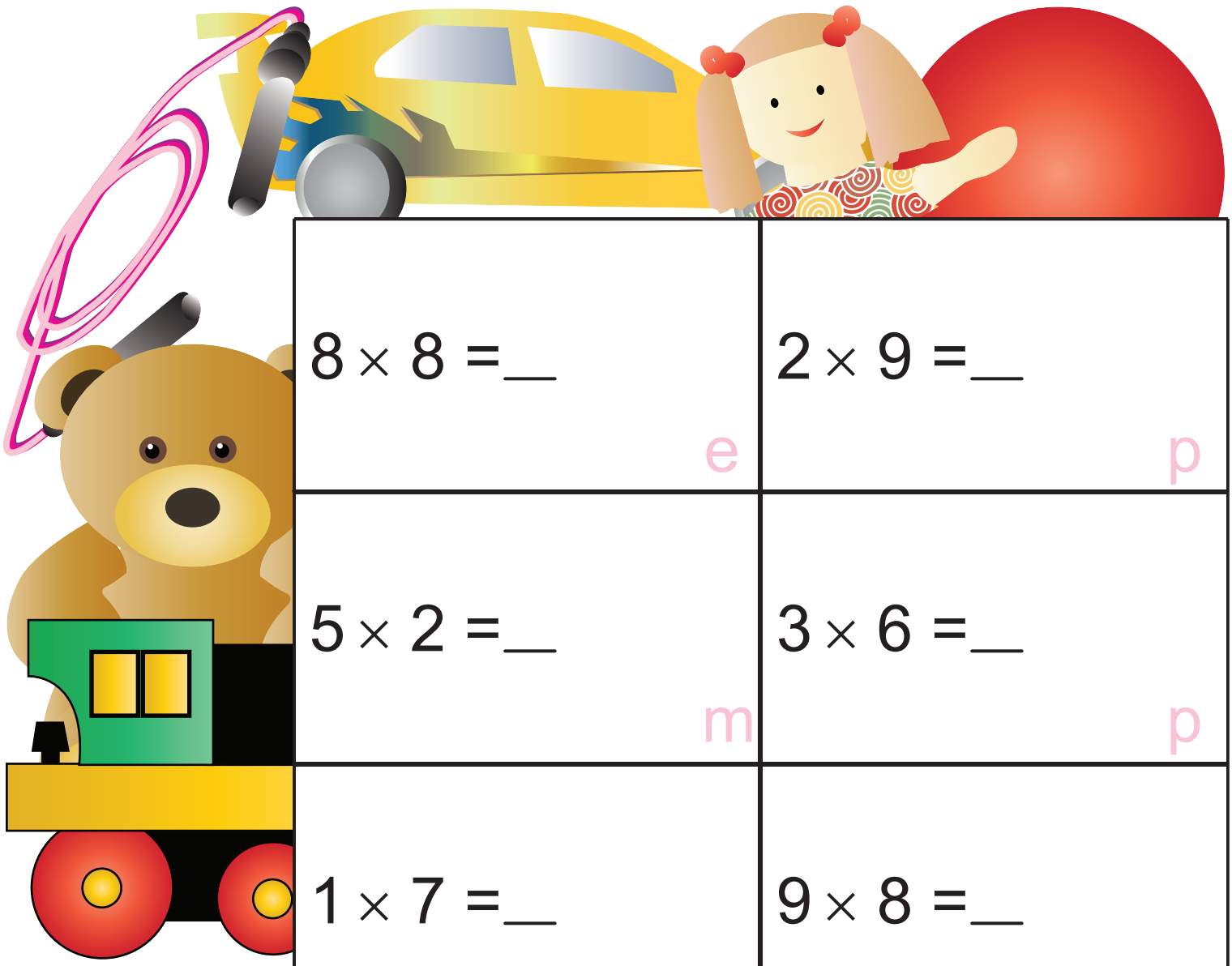
$4 \times 3 =$ ____
jade green

$2 \times 7 =$ ____
rust

$7 \times 6 =$ ____
tan

$8 \times 6 =$ ____
brown

$3 \times 9 =$ ____
cream



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?

$8 \times 8 =$ __ e	$2 \times 9 =$ __ p
$5 \times 2 =$ __ m	$3 \times 6 =$ __ p
$1 \times 7 =$ __ u	$9 \times 8 =$ __ o
$3 \times 7 =$ __ r	$3 \times 2 =$ __ j

6	7	10	18	21	72	18	64

Multiplication Color By Number

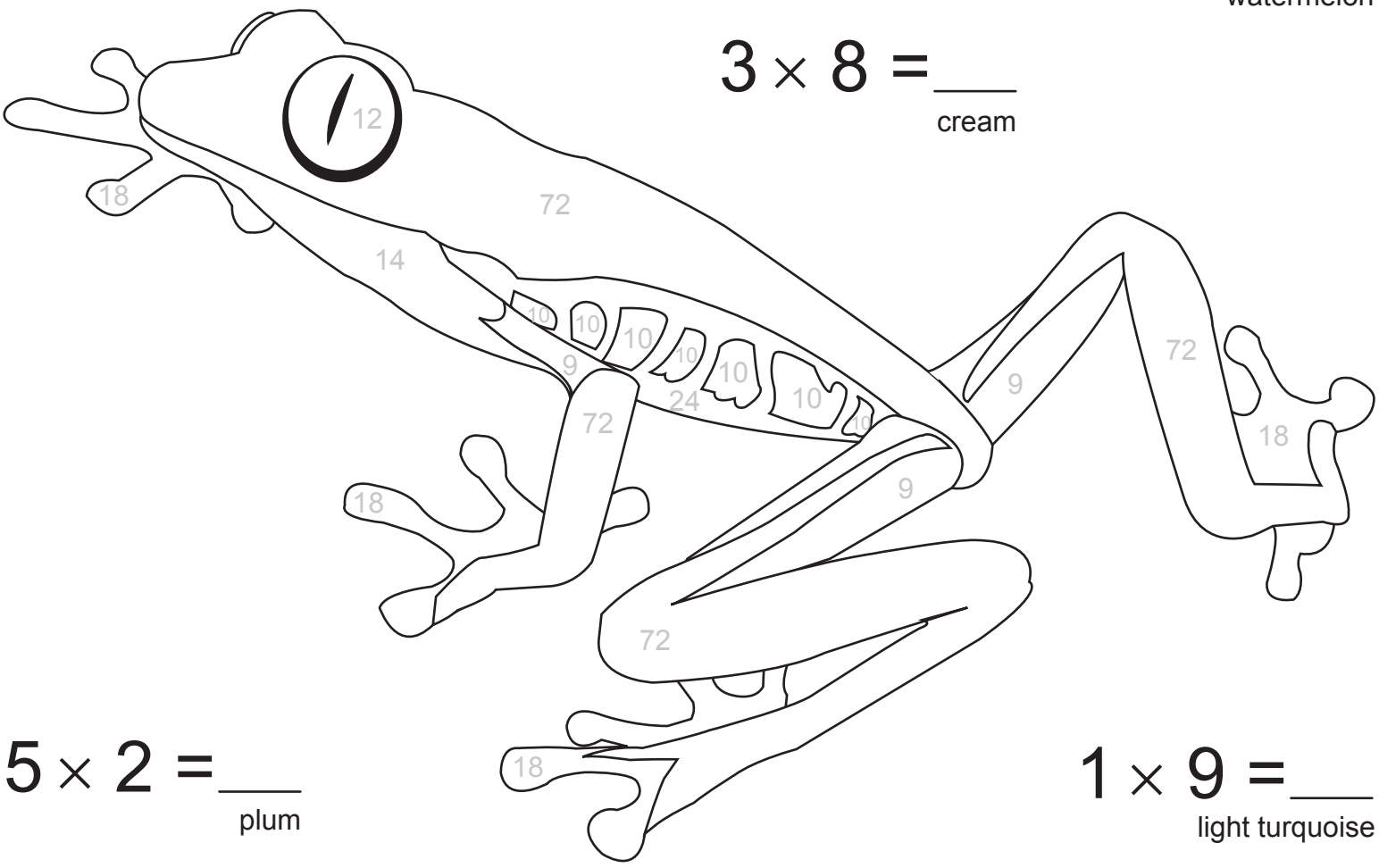
Once you have solved the muliplication problems below, you can color in the tree frog using the color that is listed under each answer.

$2 \times 7 =$____
lavender

$8 \times 9 =$____
moss green

$6 \times 3 =$____
watermelon

$3 \times 8 =$____
cream



$5 \times 2 =$____
plum

$1 \times 9 =$____
light turquoise

$9 \times 2 =$____
watermelon

$6 \times 2 =$____
light pink

Multiplication Color By Number

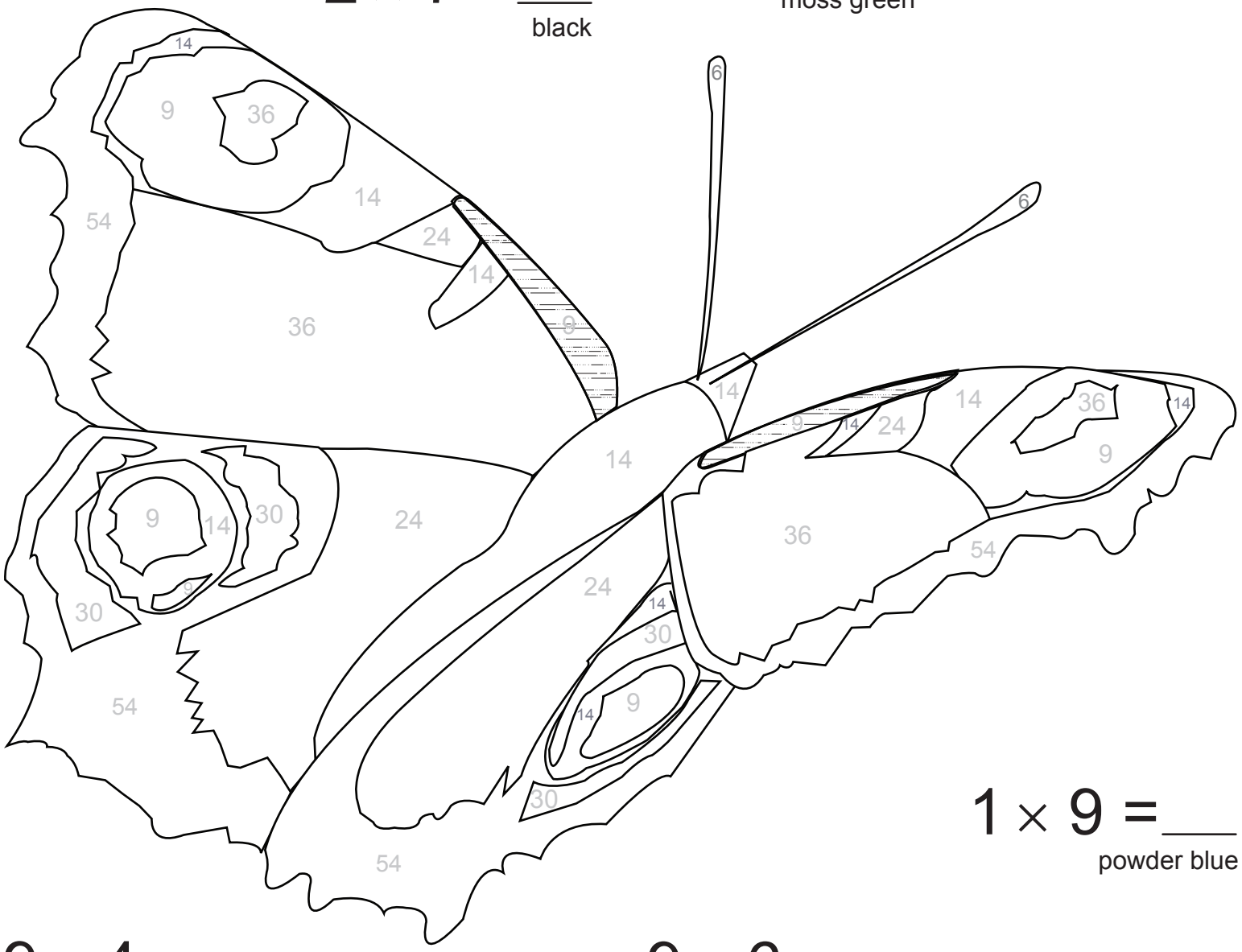
Once you have solved the muliplication problems below, you can color in the butterfly using the color that is listed under each answer.

$4 \times 9 =$ ____
apricot

$3 \times 8 =$ ____
caramel

$2 \times 7 =$ ____
black

$5 \times 6 =$ ____
moss green



$1 \times 9 =$ ____
powder blue

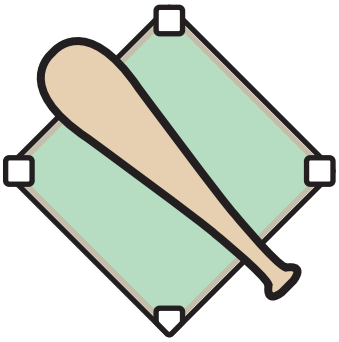
$9 \times 4 =$ ____
apricot

$9 \times 6 =$ ____
jade green

$2 \times 3 =$ ____
olive green

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!

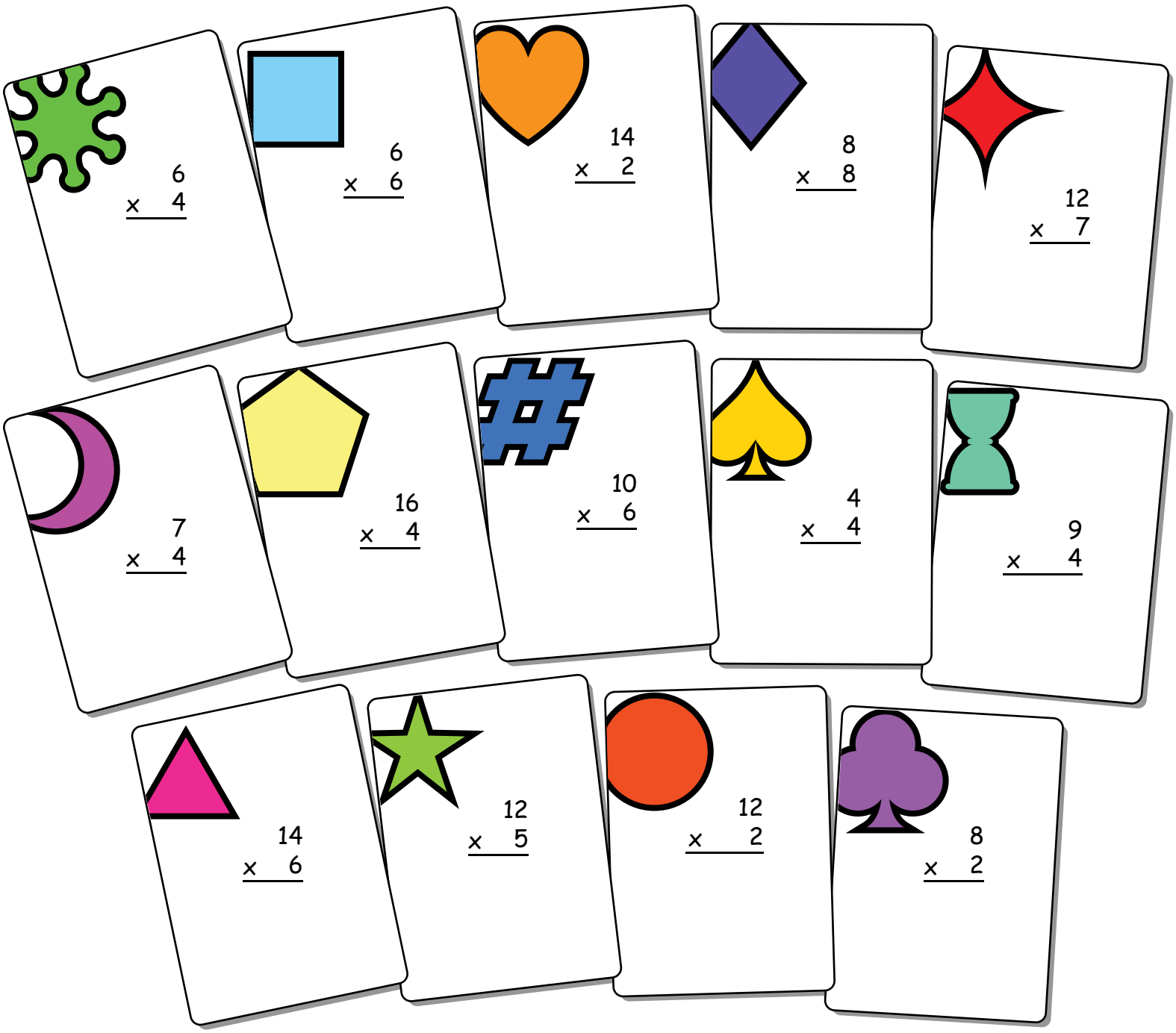


5 x 2 = ___	7 x 3 = ___	2 x 2 = ___	7 x 1 = ___
4 x 3 = ___	8 x 2 = ___	5 x 5 = ___	6 x 3 = ___
2 x 9 = ___	3 x 3 = ___	5 x 0 = ___	8 x 3 = ___

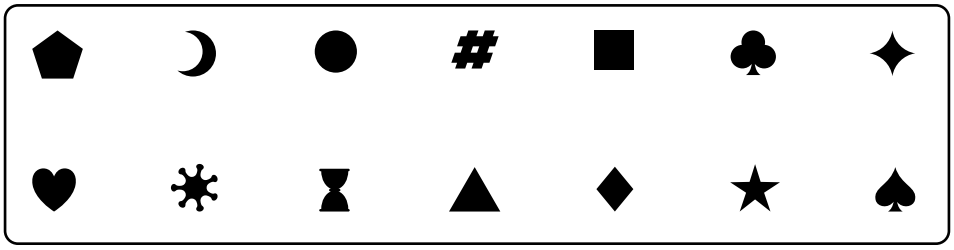
Multiplication Mix-Up

3rd 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.



Key



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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.

$3 \times \square = 6$	$4 \times \square = 20$	$5 \times 5 = \square$
$\square \times 6 = 48$	$5 \times 6 = \square$	$\square \times 7 = 42$
$6 \times \square = 18$	$\square \times 2 = 14$	$8 \times \square = 64$
$\square \times 4 = 8$	$6 \times \square = 0$	$6 \times 9 = \square$
$\square \times 8 = 32$	$9 \times \square = 27$	$7 \times \square = 28$
$10 \times 1 = \square$	$7 \times 8 = \square$	$\square \times 5 = 45$

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3rd Grade

Math

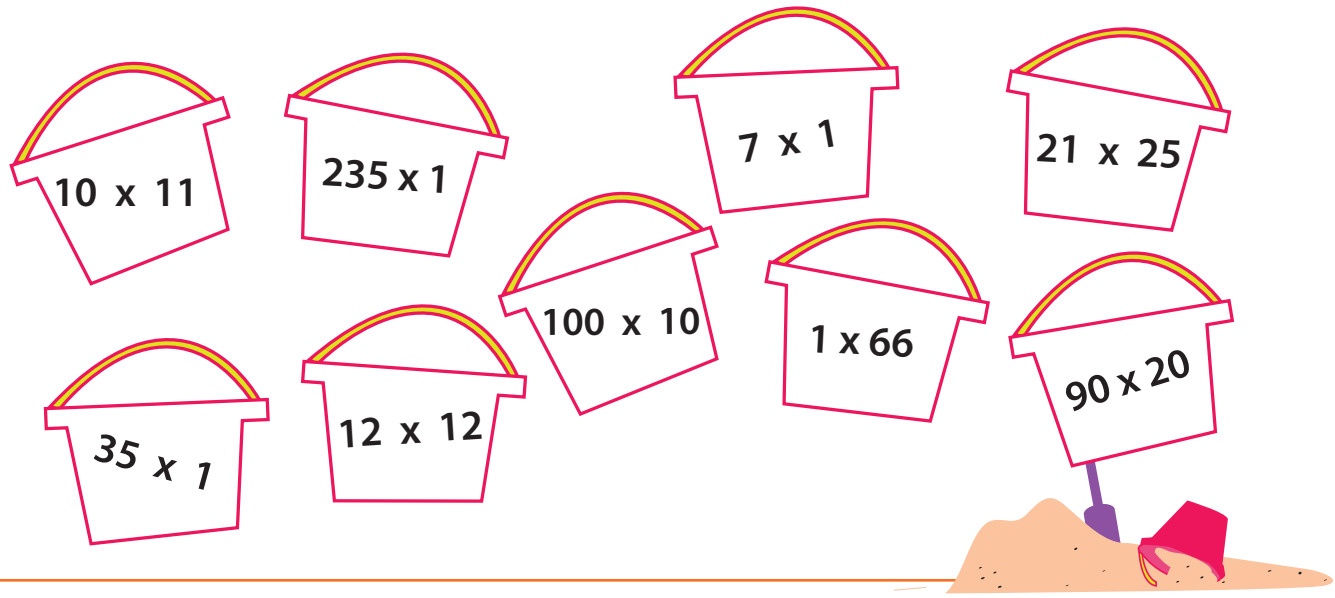
Multiplication

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.

$\square \times 1 = 4$

$0.75 \times \square = 0.75$

$25 \times \square = 25$

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

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

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

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

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

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.

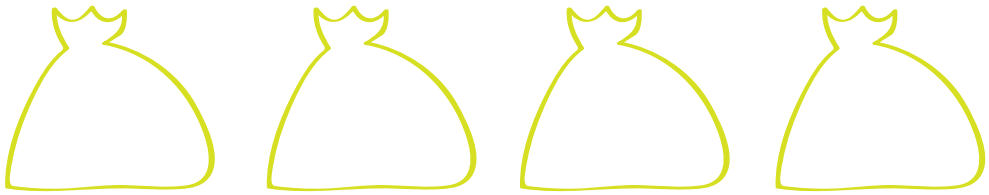
$$A \times B = B \times A$$

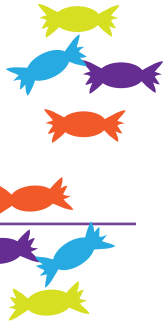
Find the missing number in the equations following the commutative property rule. Then answer the questions below.

7 x 5 = 5 x ☐

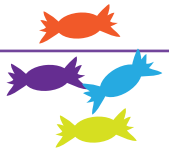
10 x 11 = 11 x ☐

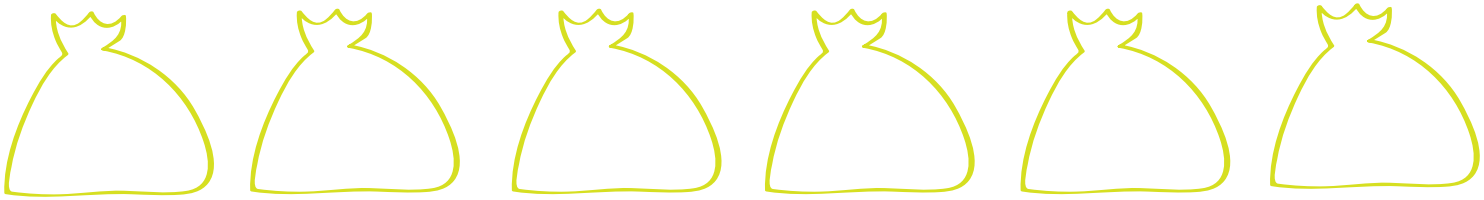
Julia has four bags of candy. Each bag contains six pieces of candy. Draw the pieces in each bag. How many pieces does Julia have?





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.

☐ x ☐ = ☐ x ☐

☐ x ☐ = ☐ x ☐

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.

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

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

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

Find the product of these numbers.

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

$10 \times (3 \times 4) = 10 \times \square = \square$

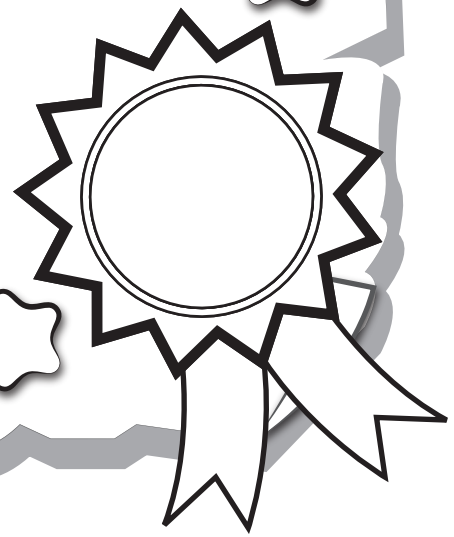
$(10 \times 3) \times 4 = \square \times 4 = \square$

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

Great job!

_____

is an Education.com math superstar

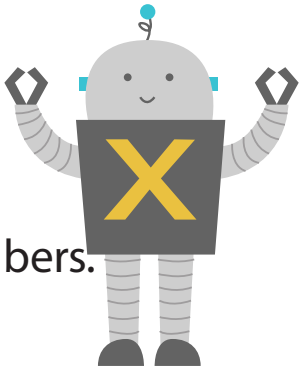


Answer Sheets

Multiplication Mania

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

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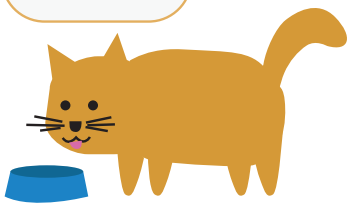
Answer Sheet

Multiplying by One

Find the **product**.

$1 \times 4 = 4$	$6 \times 1 = 6$	$1 \times 5 = 5$	$7 \times 1 = 7$
$1 \times 0 = 0$	$1 \times 2 = 2$	$3 \times 1 = 3$	$1 \times 1 = 1$
$8 \times 1 = 8$	$1 \times 7 = 7$	$9 \times 1 = 9$	$10 \times 1 = 10$
$5 \times 1 = 5$	$1 \times 3 = 3$	$1 \times 8 = 8$	$1 \times 6 = 6$



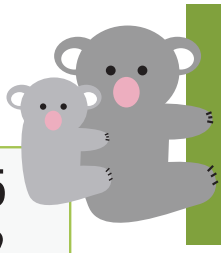
Fill in the multiplication chart.

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**.



3 × 2 = 6	2 × 1 = 4	2 × 6 = 12	5 × 2 = 10
2 × 7 = 14	4 × 2 = 8	2 × 2 = 4	8 × 2 = 16
9 × 2 = 18	10 × 2 = 20	2 × 5 = 10	2 × 3 = 6
6 × 2 = 12	7 × 2 = 14	2 × 0 = 0	7 × 2 = 14

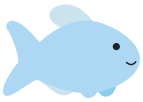
Fill in the multiplication chart.

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

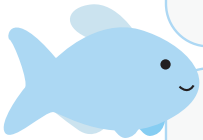
Answer Sheet

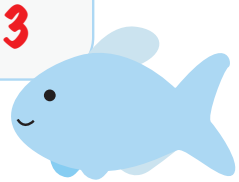
Multiplying by Three

Find the **product**.



$3 \times 2 = 6$	$5 \times 3 = 15$	$1 \times 3 = 3$	$3 \times 4 = 12$
$3 \times 0 = 0$	$3 \times 3 = 9$	$6 \times 3 = 18$	$3 \times 8 = 24$
$7 \times 3 = 21$	$10 \times 3 = 30$	$9 \times 3 = 27$	$5 \times 3 = 15$
$8 \times 3 = 24$	$3 \times 6 = 18$	$2 \times 3 = 6$	$3 \times 1 = 3$





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

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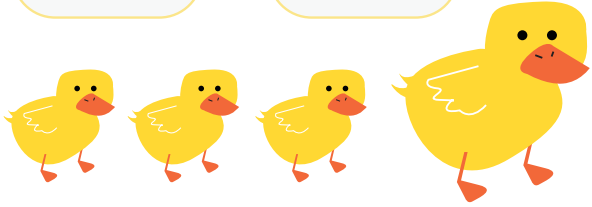
Answer Sheet

Multiplying by Four

Find the **product**.

$4 \times 2 = 8$	$1 \times 4 = 4$	$4 \times 4 = 16$	$5 \times 4 = 20$
$3 \times 4 = 12$	$4 \times 0 = 0$	$6 \times 4 = 24$	$2 \times 4 = 8$
$4 \times 7 = 28$	$8 \times 4 = 32$	$4 \times 5 = 20$	$9 \times 4 = 36$
$4 \times 6 = 24$	$4 \times 1 = 4$	$10 \times 4 = 40$	$7 \times 4 = 28$

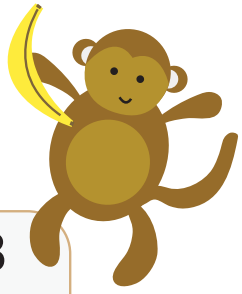
Fill in the multiplication chart.



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**.

$5 \times 1 = 5$	$2 \times 5 = 10$	$5 \times 4 = 20$	$3 \times 5 = 15$
$0 \times 5 = 0$	$5 \times 5 = 25$	$1 \times 5 = 5$	$6 \times 5 = 30$
$5 \times 3 = 15$	$7 \times 5 = 35$	$8 \times 5 = 40$	$5 \times 2 = 10$
$5 \times 9 = 45$	$4 \times 5 = 20$	$10 \times 5 = 50$	$5 \times 7 = 35$

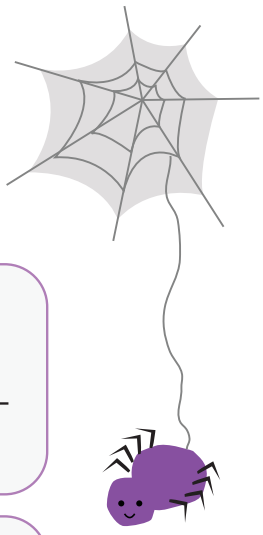
Fill in the multiplication chart.

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**.



$3 \times 6 = 18$	$6 \times 4 = 24$	$2 \times 6 = 12$	$6 \times 0 = 0$
$10 \times 6 = 60$	$6 \times 6 = 36$	$9 \times 6 = 54$	$6 \times 7 = 42$
$6 \times 8 = 48$	$5 \times 6 = 30$	$4 \times 6 = 24$	$6 \times 1 = 6$
$6 \times 9 = 54$	$7 \times 6 = 42$	$6 \times 3 = 18$	$6 \times 2 = 12$

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

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Answer Sheet

Multiplying by Seven

Find the **product**.

$2 \times 7 = 14$	$7 \times 3 = 21$	$7 \times 0 = 0$	$1 \times 7 = 7$
$4 \times 7 = 28$	$7 \times 6 = 42$	$8 \times 7 = 56$	$7 \times 4 = 28$
$7 \times 5 = 35$	$10 \times 7 = 70$	$7 \times 7 = 49$	$6 \times 7 = 42$
$7 \times 8 = 56$	$9 \times 7 = 63$	$10 \times 7 = 70$	$3 \times 7 = 21$

Fill in the multiplication chart.

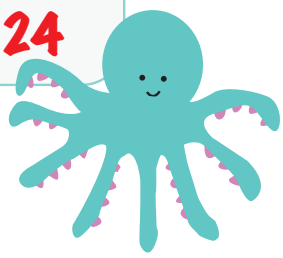
x	1	2	3	4	5	6	7	8	9	10
7	7	14	21	28	35	42	49	56	63	70

Answer Sheet

Multiplying by Eight

Find the **product**.

$1 \times 8 = 8$	$2 \times 8 = 16$	$8 \times 3 = 24$	$8 \times 1 = 8$
$5 \times 8 = 40$	$4 \times 8 = 32$	$10 \times 8 = 80$	$8 \times 0 = 0$
$8 \times 8 = 64$	$6 \times 8 = 48$	$8 \times 5 = 40$	$7 \times 8 = 56$
$8 \times 4 = 32$	$9 \times 8 = 72$	$8 \times 7 = 56$	$3 \times 8 = 24$



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**.

9 × 1 = 9	3 × 9 = 27	9 × 4 = 36	2 × 9 = 18
9 × 5 = 45	0 × 9 = 0	1 × 9 = 9	10 × 9 = 90
6 × 9 = 54	8 × 9 = 72	9 × 7 = 63	5 × 9 = 45
7 × 9 = 63	4 × 9 = 36	9 × 2 = 18	9 × 6 = 54

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

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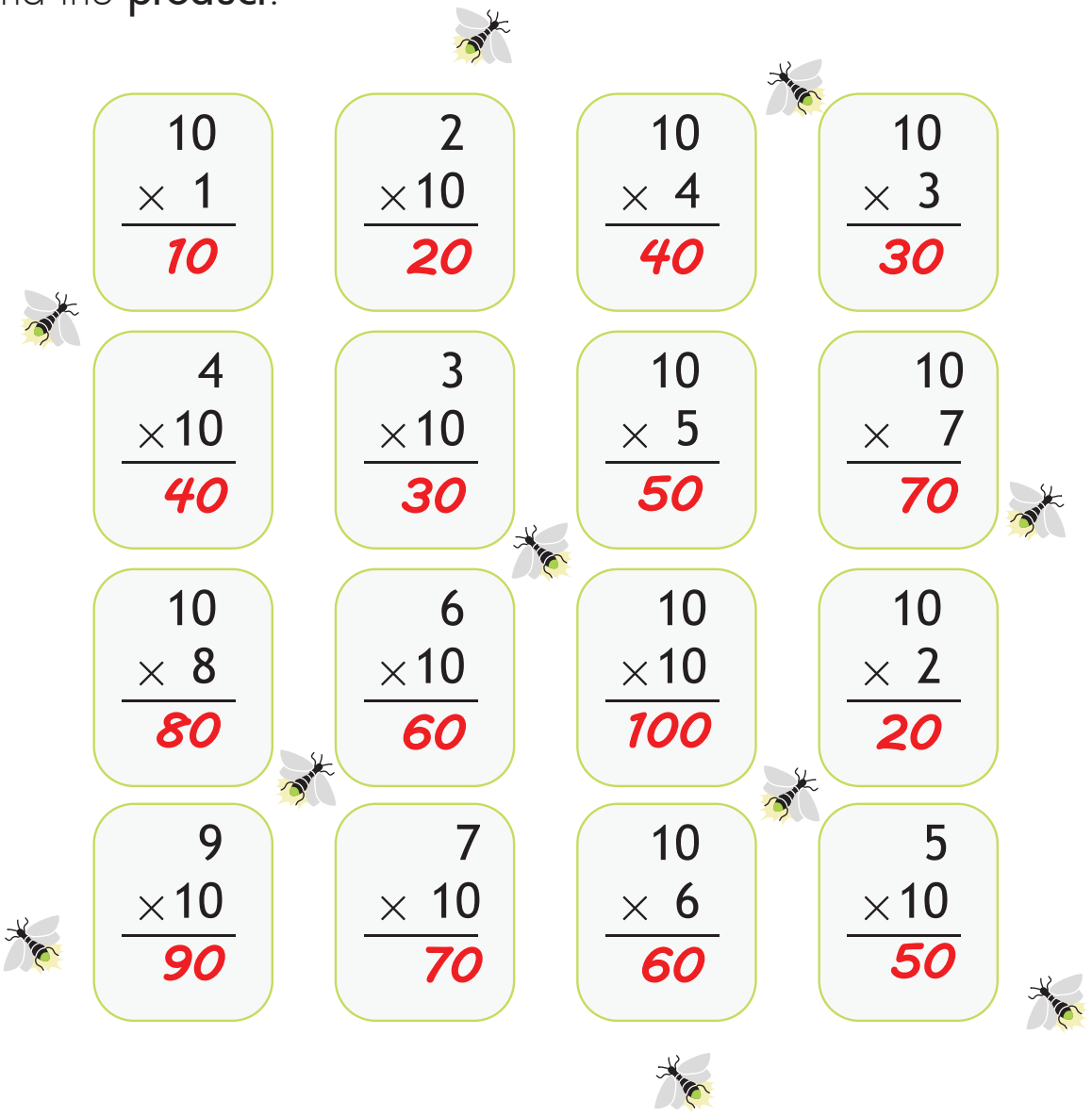
Answer Sheet

Multiplying by Ten

Find the **product**.



10 × 1 = 10	2 × 10 = 20	10 × 4 = 40	10 × 3 = 30
4 × 10 = 40	3 × 10 = 30	10 × 5 = 50	10 × 7 = 70
10 × 8 = 80	6 × 10 = 60	10 × 10 = 100	10 × 2 = 20
9 × 10 = 90	7 × 10 = 70	10 × 6 = 60	5 × 10 = 50

Fill in the multiplication chart.

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

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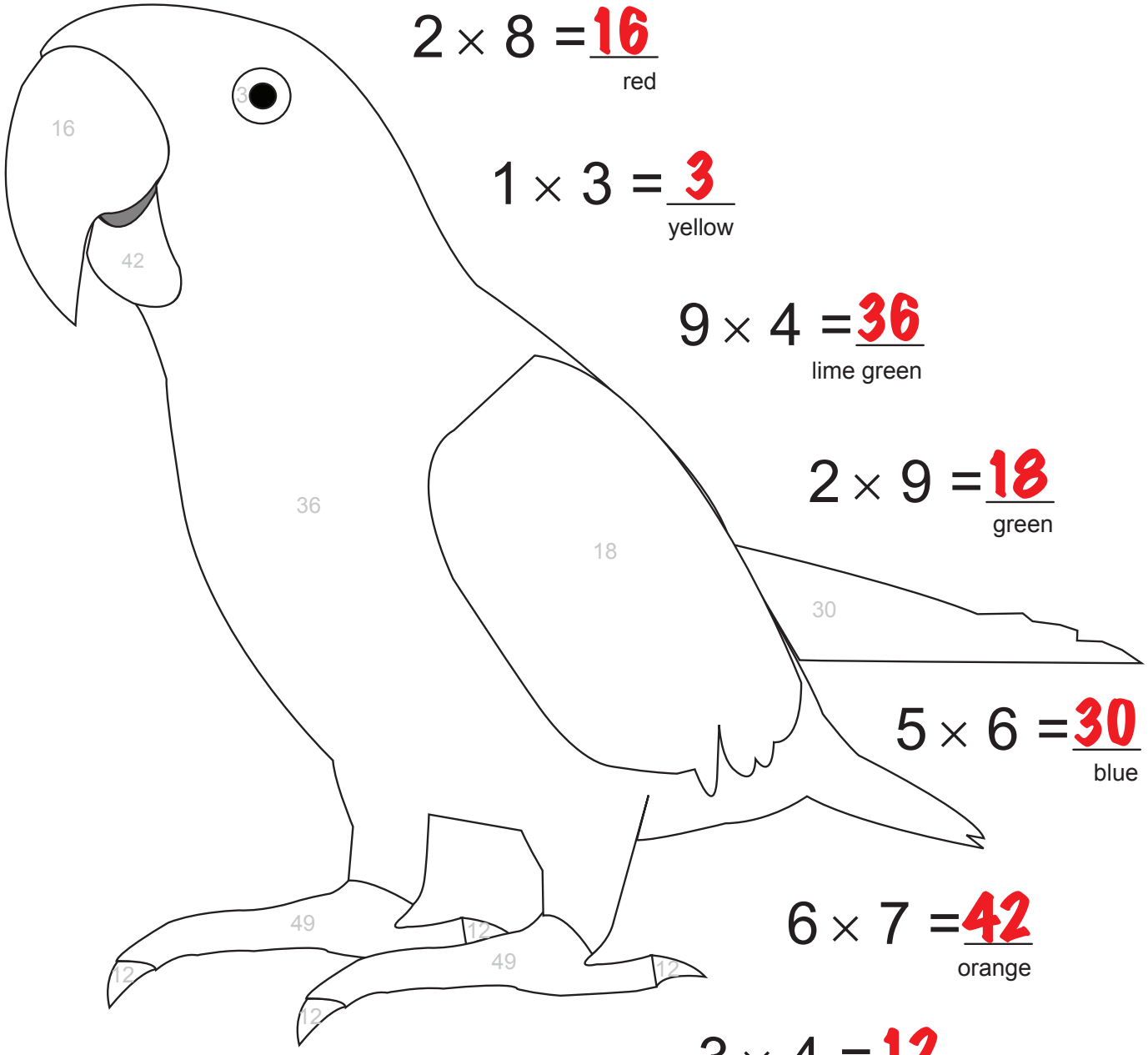
Answer Sheet

Multiplication Color By Number

Once you have solved the muliplication 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

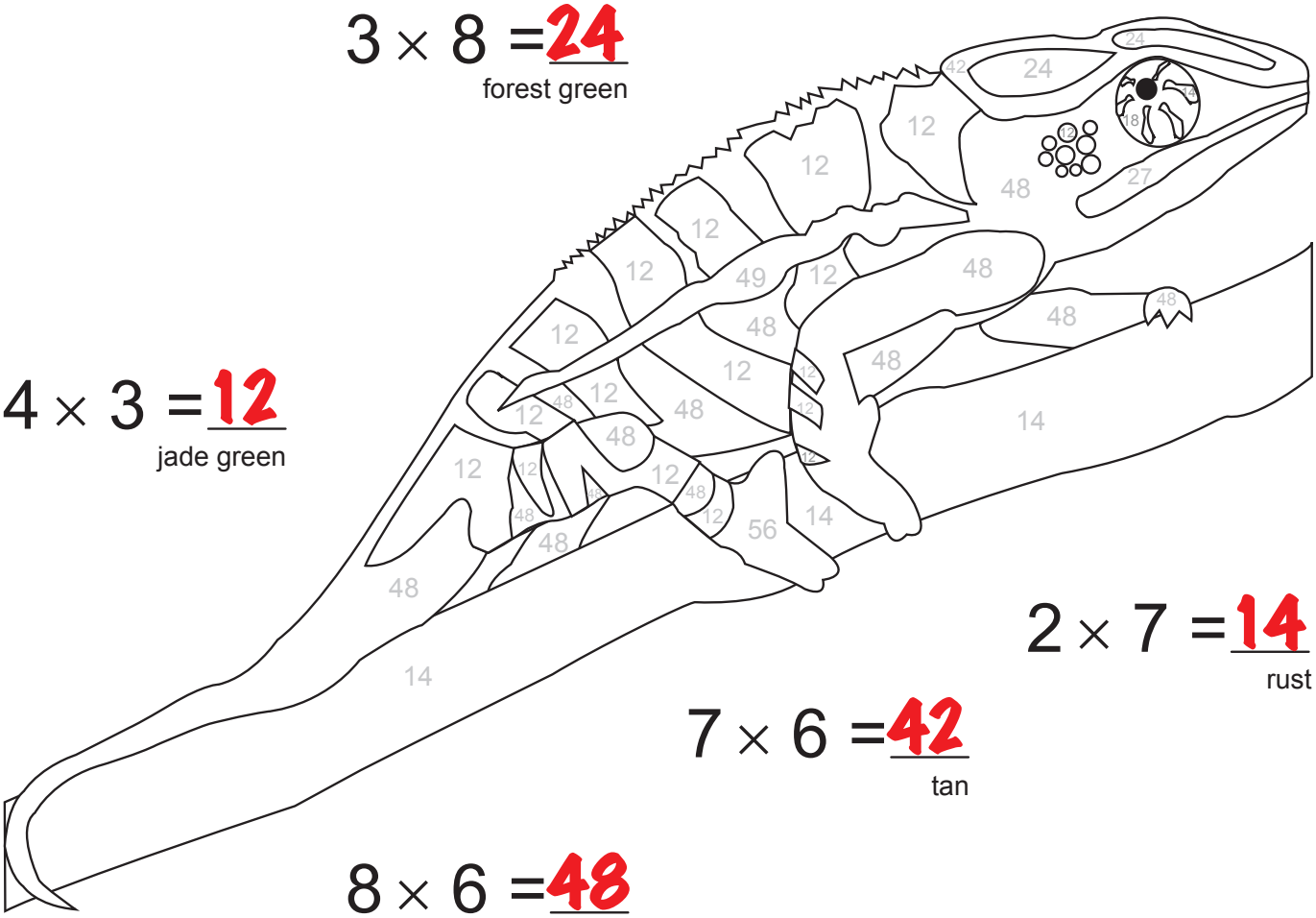
Multiplication Color By Number

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

$9 \times 2 = 18$
pale yellow

$7 \times 7 = 49$
blue green

$3 \times 8 = 24$
forest green



$4 \times 3 = 12$
jade green

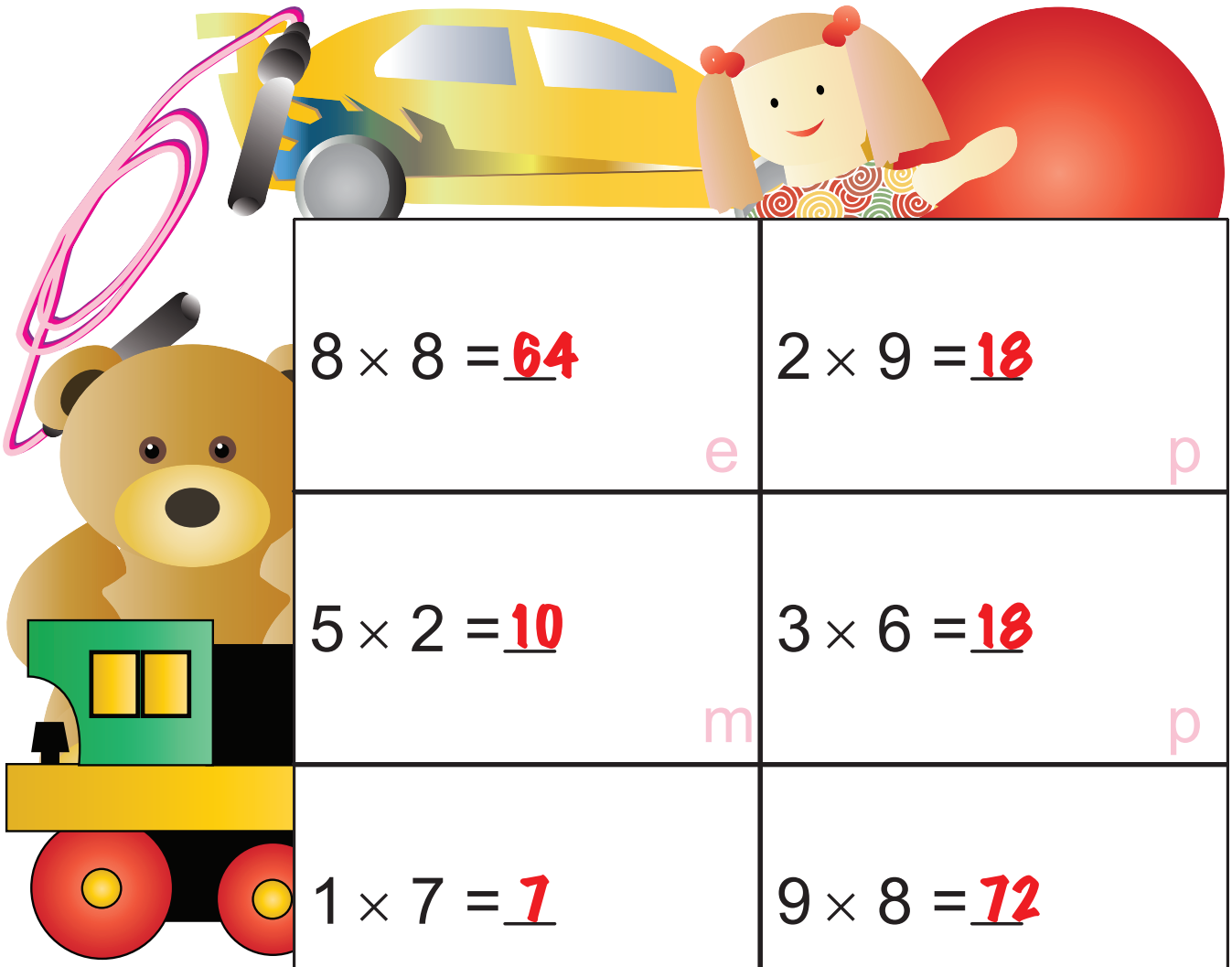
$2 \times 7 = 14$
rust

$7 \times 6 = 42$
tan

$8 \times 6 = 48$
brown

$3 \times 9 = 27$
cream

Answer Sheet



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?

$8 \times 8 = 64$ e	$2 \times 9 = 18$ p
$5 \times 2 = 10$ m	$3 \times 6 = 18$ p
$1 \times 7 = 7$ u	$9 \times 8 = 72$ o
$3 \times 7 = 21$ r	$3 \times 2 = 6$ j

J	U	M	P	R	O	P	E
6	7	10	18	21	72	18	64

Answer Sheet

Multiplication Color By Number

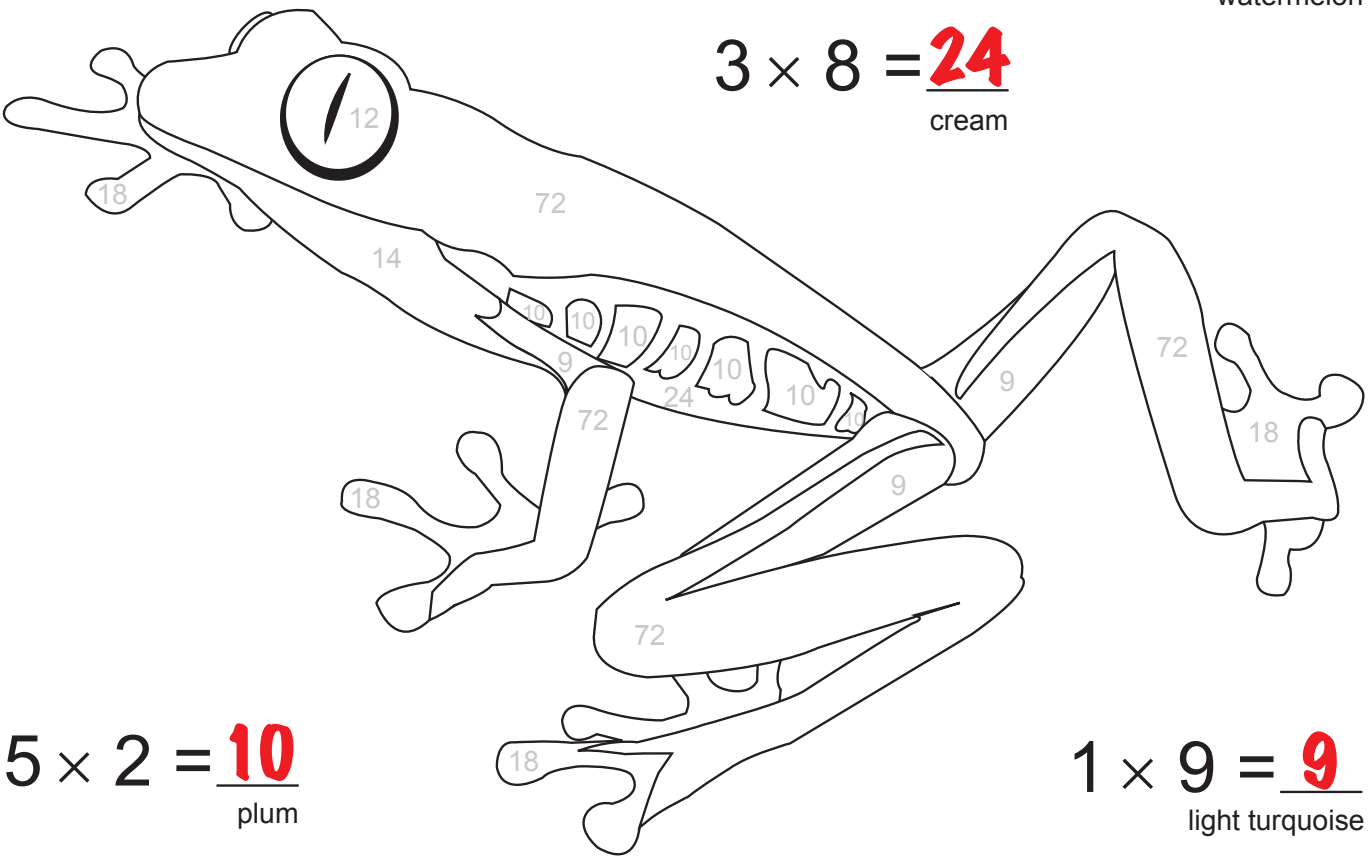
Once you have solved the muliplication problems below, you can color in the tree frog using the color that is listed under each answer.

$2 \times 7 = 14$
lavender

$8 \times 9 = 72$
moss green

$6 \times 3 = 18$
watermelon

$3 \times 8 = 24$
cream



$5 \times 2 = 10$
plum

$1 \times 9 = 9$
light turquoise

$9 \times 2 = 18$
watermelon

$6 \times 2 = 12$
light pink

Answer Sheet

Multiplication Color By Number

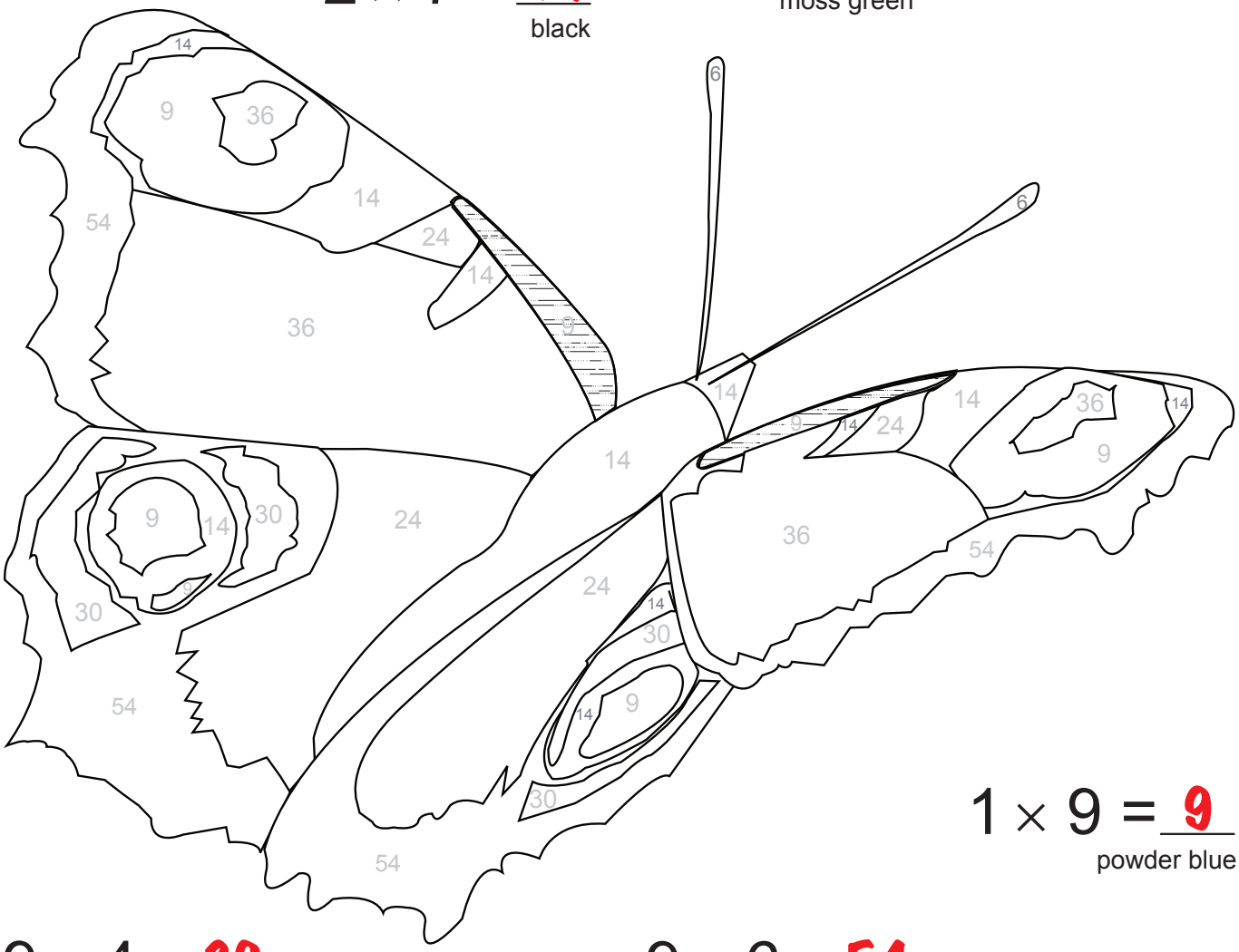
Once you have solved the muliplication problems below, you can color in the butterfly using the color that is listed under each answer.

$4 \times 9 = 36$
apricot

$2 \times 7 = 14$
black

$5 \times 6 = 30$
moss green

$3 \times 8 = 24$
caramel



$1 \times 9 = 9$
powder blue

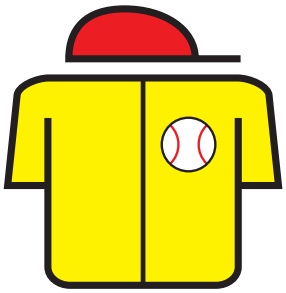
$9 \times 4 = 36$
apricot

$9 \times 6 = 54$
jade green

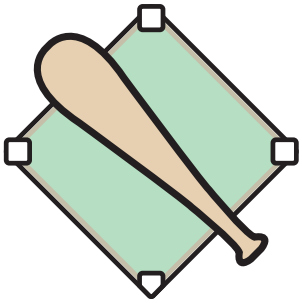
$2 \times 3 = 6$
olive green

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!



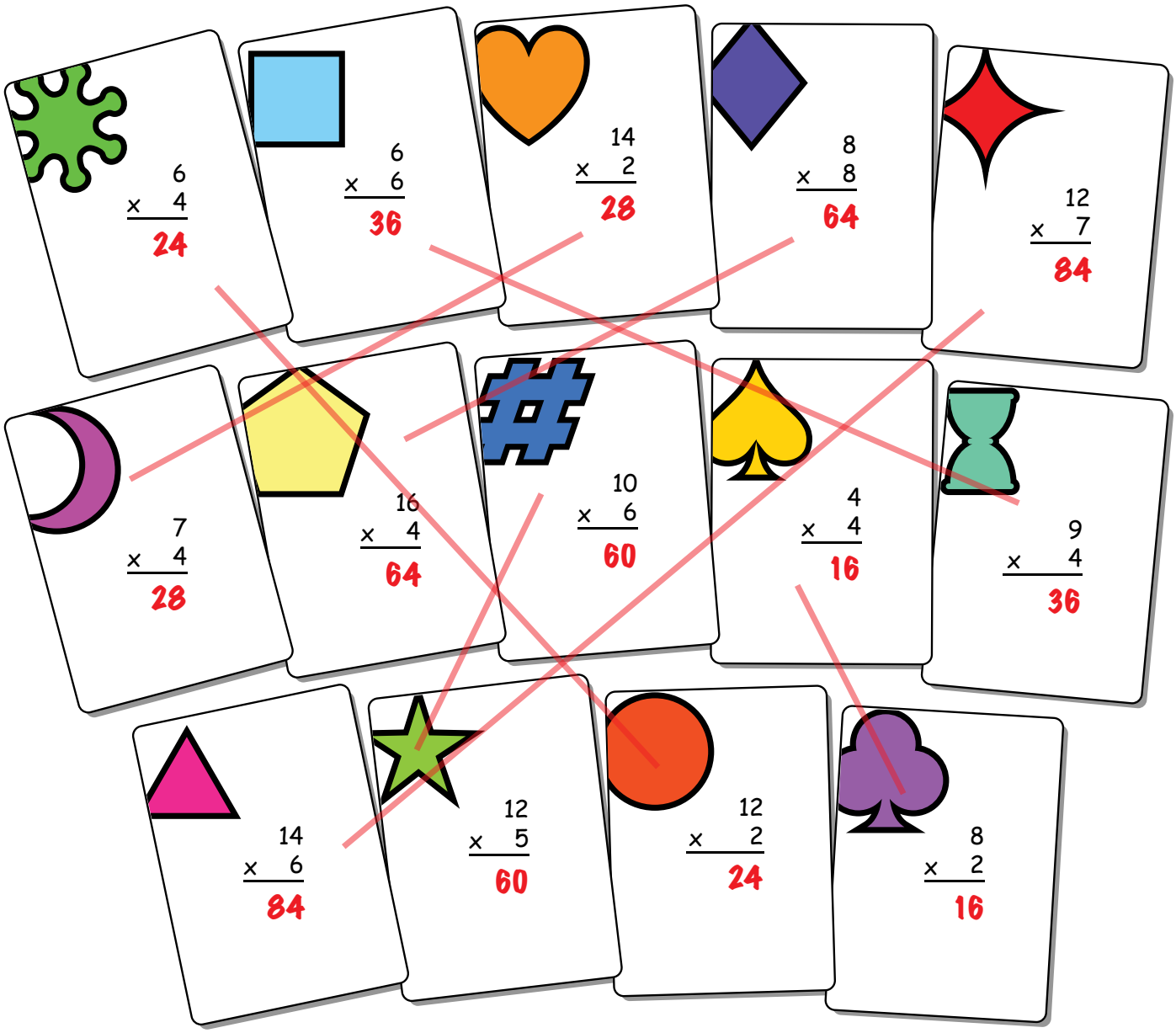
5 x 2 = 10	7 x 3 = 21	2 x 2 = 4	7 x 1 = 7
4 x 3 = 12	8 x 2 = 16	5 x 5 = 25	6 x 3 = 18
2 x 9 = 18	3 x 3 = 9	5 x 0 = 0	8 x 3 = 24

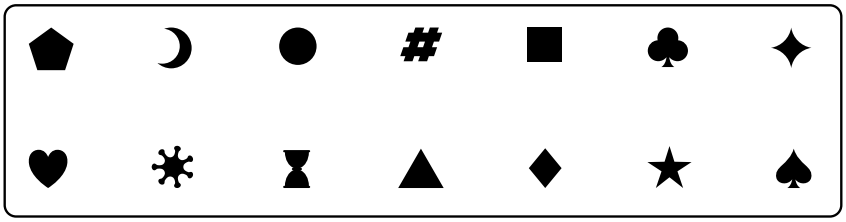
Answer Sheet

Multiplication Mix-Up

3rd Grade

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





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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.

$3 \times 2 = 6$	$4 \times 5 = 20$	$5 \times 5 = 25$
$8 \times 6 = 48$	$5 \times 6 = 30$	$6 \times 7 = 42$
$6 \times 3 = 18$	$7 \times 2 = 14$	$8 \times 8 = 64$
$2 \times 4 = 8$	$6 \times 0 = 0$	$6 \times 9 = 54$
$4 \times 8 = 32$	$9 \times 3 = 27$	$7 \times 4 = 28$
$10 \times 1 = 10$	$7 \times 8 = 56$	$9 \times 5 = 45$

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Answer Sheet

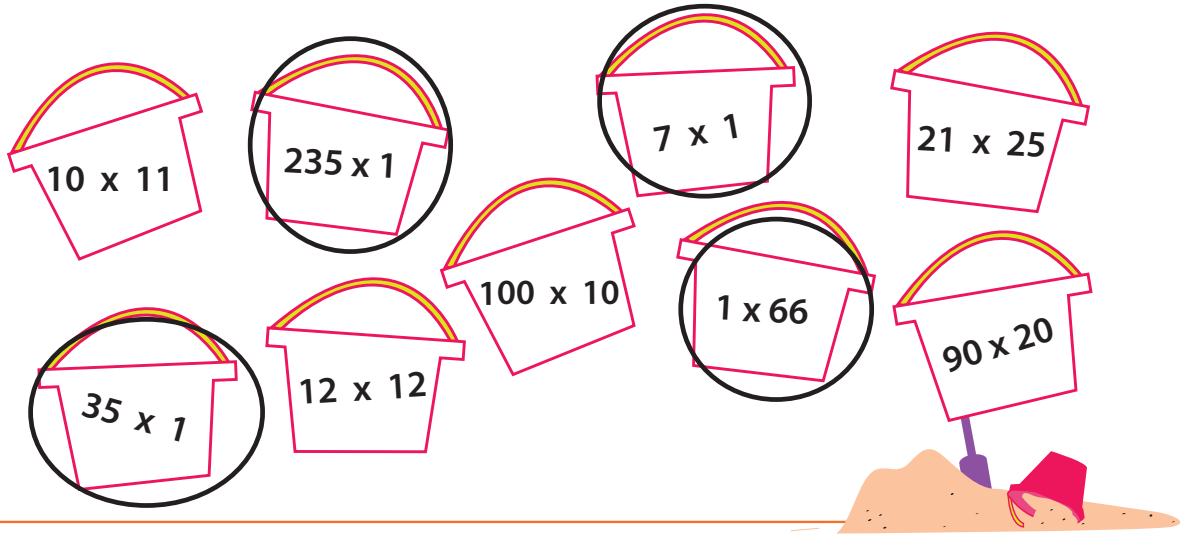
3rd Grade
Math
Multiplication

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 x 1 = 4

0.75 x 1 = 0.75

25 x 1 = 25

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

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

(68 + 15) x 1 = 83

(100 - 55) x 1 = 45

(3 + 20 + 11 + 4) x 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.

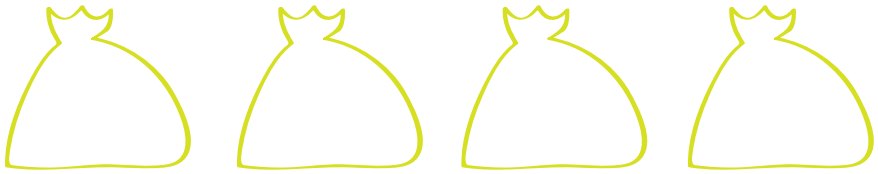
$$A \times B = B \times A$$

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

7 x 5 = 5 x **7**

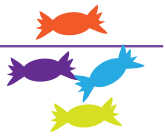
10 x 11 = 11 x **10**

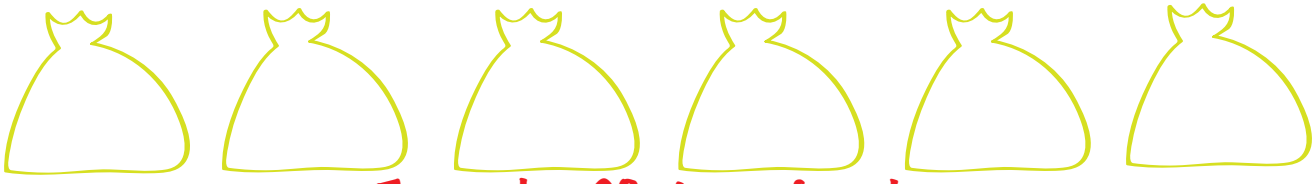
Julia has four bags of candy. Each bag contains six pieces of candy. Draw the pieces in each bag. How many pieces does Julia have?



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.

4 x **6** = **6** x **4**

6 x **5** = **5** x **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