A Story of Units®

Eureka Math[™] Grade 2, Module 6

Student File_A

Contains copy-ready classwork and homework as well as templates (including cut outs)

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10 9 8 7 6 5 4 3 2 1

1. Circle groups of two apples.



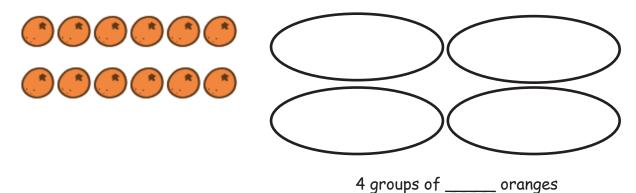
There are _____ groups of two apples.

2. Circle groups of three balls.

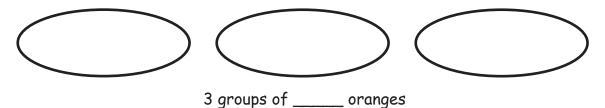


There are ____ groups of three balls.

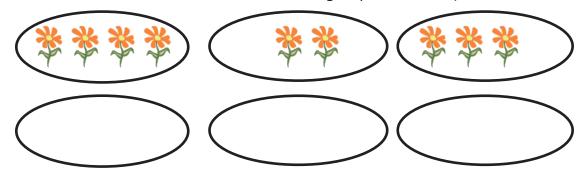
3. Redraw the 12 oranges into 4 equal groups.



4. Redraw the 12 oranges into 3 equal groups.

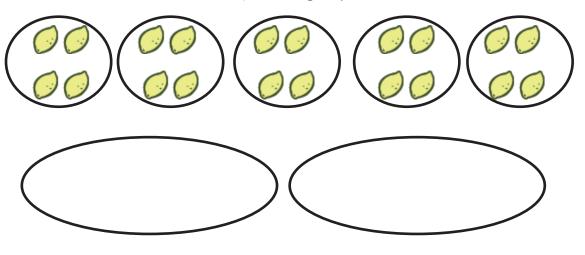


5. Redraw the flowers to make each of the 3 groups have an equal number.



3 groups of _____ flowers = ____ flowers.

6. Redraw the lemons to make 2 equal size groups.



2 groups of _____ lemons = ____ lemons.

Date ____ Name ____

1. Circle groups of two shirts.



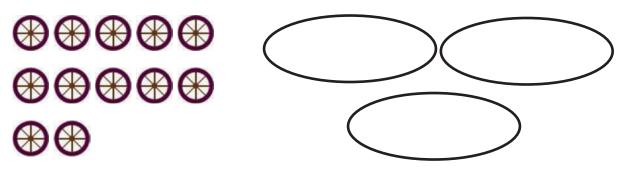
There are ____ groups of two shirts.

2. Circle groups of three pants.



There are ____ groups of three pants.

3. Redraw the 12 wheels into 3 equal groups.



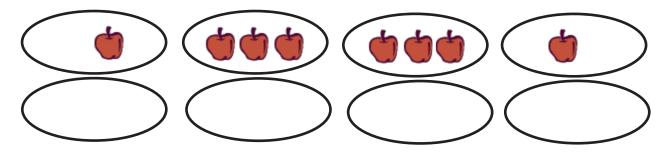
3 groups of _____ wheels

4. Redraw the 12 wheels into 4 equal groups.



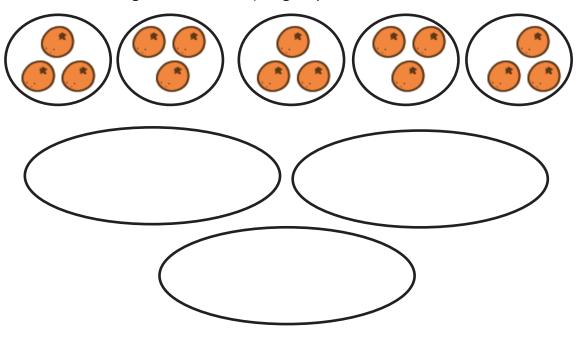
4 groups of _____ wheels

5. Redraw the apples to make each of the 4 groups have an equal amount.



4 groups of _____ apples = ____ apples.

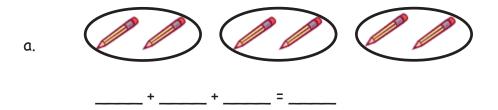
6. Redraw the oranges to make 3 equal groups.



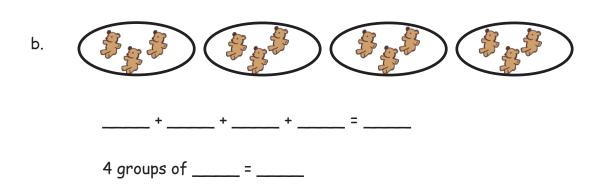
3 groups of _____ oranges = ____ oranges.

Date _____

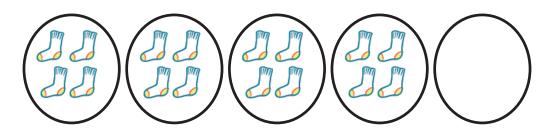
1. Write a repeated addition equation to show the number of objects in each group. Then, find the total.



3 groups of ____ = ____

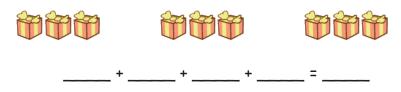


2. Draw 1 more group of four. Then, write a repeated addition equation to match.



5 groups of ____ = ____

3. Draw 1 more group of three. Then, write a repeated addition equation to match.



_____ groups of 3 = ____

4. Draw 2 more equal groups. Then, write a repeated addition equation to match.







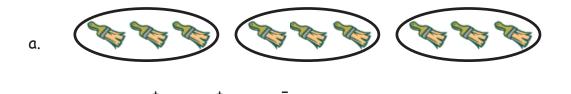
+ _____ + ____ + ____ = ____

_____ groups of 2 = ____

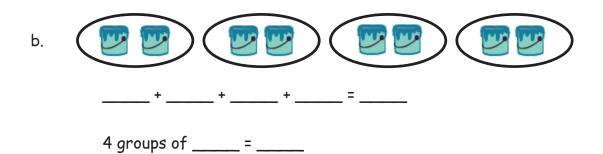
5. Draw 3 groups of 5 stars. Then, write a repeated addition equation to match.

Date _____

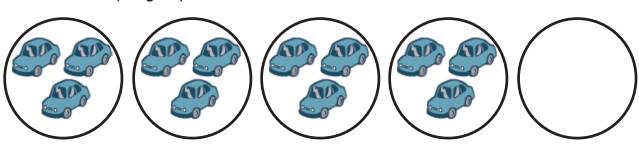
1. Write a repeated addition equation to show the number of objects in each group. Then, find the total.



3 groups of ____ = ____



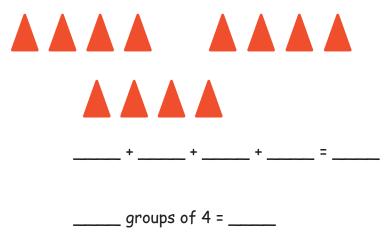
2. Draw 1 more equal group.



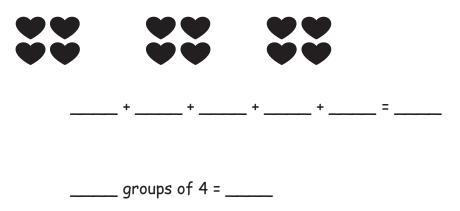
___ + _____ + _____ + ____ = ____

5 groups of ____ = ____

3. Draw 1 more group of four. Then, write a repeated addition equation to match.



4. Draw 2 more equal groups. Then, write a repeated addition equation to match.

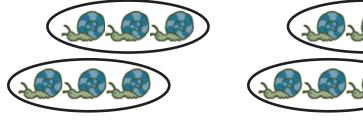


5. Draw 4 groups of 3 circles. Then, write a repeated addition equation to match.

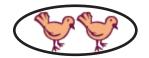
Date _____ Name _____

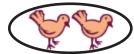
1. Write a repeated addition equation to match the picture. Then, group the addends into pairs to show a more efficient way to add.

α.



4 groups of _____ = 2 groups of _____



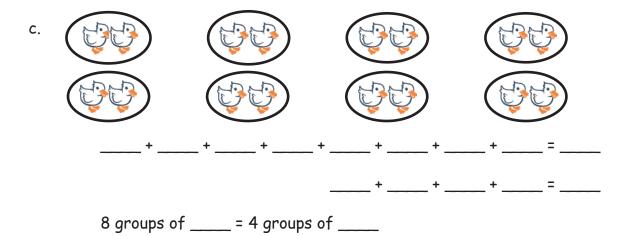




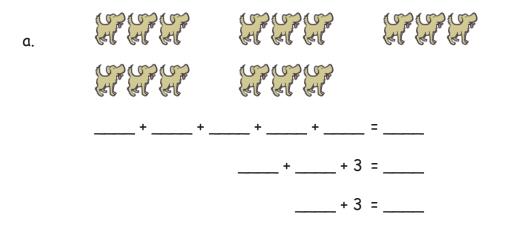


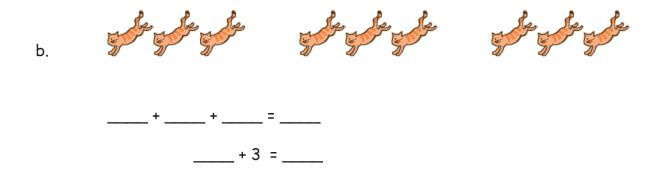
____ + ___ = ____

4 groups of ____ = 2 groups of ____



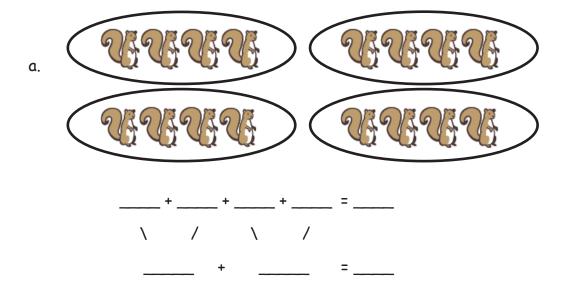
2. Write a repeated addition equation to match the picture. Then, group addends into pairs, and add to find the total.



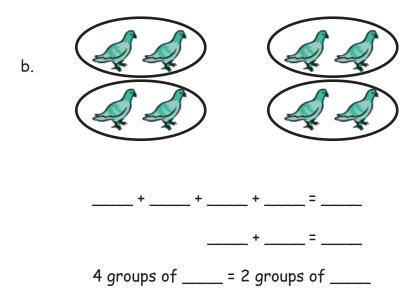


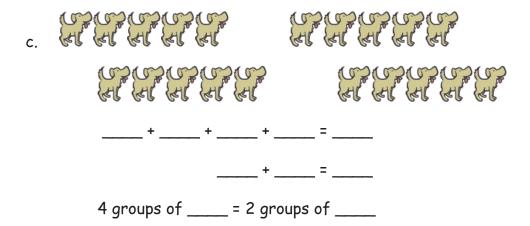
Date ____ Name _____

1. Write a repeated addition equation to match the picture. Then, group the addends into pairs to show a more efficient way to add.



4 groups of _____ = 2 groups of _____





- 2. Write a repeated addition equation to match the picture. Then, group addends into pairs, and add to find the total.
 - got got got got got got got a. ____ + ____ + 3 = ____

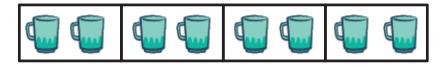
b. + +2 = + 2 =

____ + 3 = ____

Date ____

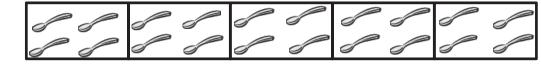
1. Write a repeated addition equation to find the total of each tape diagram.

a.



4 groups of 2 = _____

b.



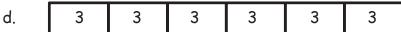
____+ ____= ____

5 groups of ____ = ___

C.

5

3 groups of ____ = ____



_____ groups of ____ = ____

2. Draw a tape diagram to find the total.

c. 5 groups of 2

d. 4 groups of 4

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Name ____

Date ____

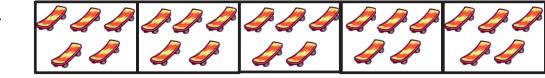
1. Write a repeated addition equation to find the total of each tape diagram.

α.



4 groups of 3 = _____

b.



5 groups of ____ = ____

C.



4 groups of ____ = ___

d.



____ groups of ____ = ____

2. Draw a tape diagram to find the total.

c. 4 groups of 2

d. 5 groups of 3





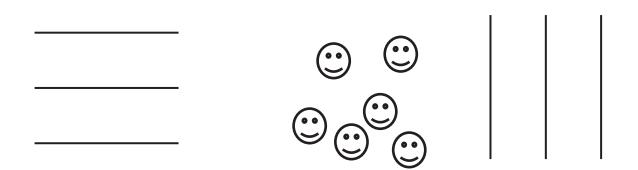


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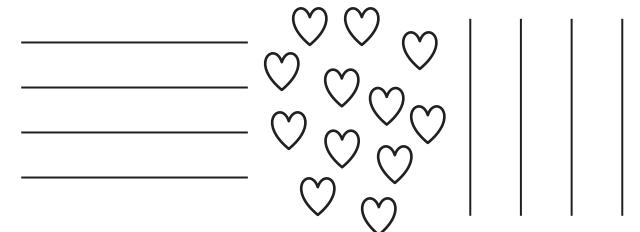
1. Circle groups of four. Then, draw the triangles into 2 equal rows.



2. Circle groups of two. Redraw the groups of two as rows and then as columns.



3. Circle groups of three. Redraw the groups of three as rows and then as columns.



4. Count the objects in the arrays from left to right by rows and by columns. As you count, circle the rows and then the columns.

α.









5. Redraw the circles and stars in Problem 4 as columns of two.

6. Draw an array with 15 triangles.

7. Show a different array with 15 triangles.

Name		Date	
1. Circle groups of five. Then, o	draw the clouds into to	wo equal rows.	
)		
	-		
2. Circle groups of four. Redraw	w the groups of four a	s rows and then	as columns.
	$\wedge \Diamond \Diamond \Diamond$	>	
	$\checkmark \Diamond \Diamond \Diamond \Diamond$		
3. Circle groups of four. Redrav	w the arouns of four a	s rows and then	as columns
o. on cie groups of four. Rear as	w me groups of your a	I	
	- 00		

4. Count the objects in the arrays from left to right by rows and by columns. As you count, circle the rows and then the columns.

a.











5. Redraw the smiley faces and triangles in Problem 4 as columns of three.

6. Draw an array with 20 triangles.

7. Show a different array with 20 triangles.



1. Complete each missing part describing each array.

Circle rows.

RRR

\$ \$ \$

5 rows of ____ = ____

___+__+__+__+__

Circle columns.

暴暴暴

3 columns of ____ = ____

____+ ____ + ____ = ____

Circle rows.

4 rows of ____ = ____ ___+__+ ___+ ___= ___ Circle columns.

5 columns of ____ = ___

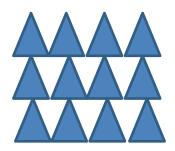
___+__+__+__+__=_

2. Use the array of triangles to answer the questions below.

a. ____ rows of ____ = 12

b. ____ columns of ____ = 12

c. ____+ ___= ___



d. Add 1 more row. How many triangles are there now? _____

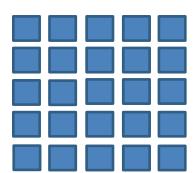
e. Add 1 more column to the new array you made in 2(d). How many triangles are there now? _____

3. Use the array of squares to answer the questions below.

a. ____+ ___+ ___+ ___ + ____+ ___

b. ____ = ___

c. ____ = ___



d. Remove 1 row. How many squares are there now? _____

e. Remove 1 column from the new array you made in 3(d). How many squares are there now? _____

1. Complete each missing part describing each array.

Circle rows.

a. 🚱 🚱 🚱



3 rows of ____ = ____

Circle columns.

4 columns of ____ = ____

Circle rows.

___+__+ ___+ ___+ ___= ___

5 rows of ____ = ____

Circle columns.

3 columns of ____ = ____

2. Use the array of smiley faces to answer the questions below.

a. ____ rows of ____ = ____



b. ____ = ___



c. ____ + ___ = ___



d. Add 1 more row. How many smiley faces are there now? _____

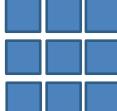
- e. Add 1 more column to the new array you made in 2(d). How many smiley faces are there now? _____
- 3. Use the array of squares to answer the questions below.



a. ____+ ____+ ____= ____



b. ____ = ___



c. ____ = ___

- d. Remove 1 row. How many squares are there now? _____
- e. Remove 1 column from the new array you made in 3(d). How many squares are there now? _____

1. a. One row of an array is drawn below. Complete the array with X's to make 3 rows of 4. Draw horizontal lines to separate the rows.

$$\times \times \times$$

b. Draw an array with X's that has 3 columns of 4. Draw vertical lines to separate the columns. Fill in the blanks.

____+ ____+ ____= ____

3 rows of 4 =

3 columns of 4 =

2. a. Draw an array of X's with 5 columns of three.

b. Draw an array of X's with 5 rows of three. Fill in the blanks below.

____+__+___=__

5 columns of three = ____

5 rows of three =

In the following problems, separate the rows or columns with horizontal or vertical lines.

3. Draw an array of X's with 4 rows of 3.



4. Draw an array of X's with 1 more row of 3 than the array in Problem 3. Write a repeated addition equation to find the total number of X's.

5 Draw an array of X's with 1 less column of 5 than the array in Problem 4. Write a repeated addition equation to find the total number of X's.



Name	Date	

1. a. One row of an array is drawn below. Complete the array with X's to make 4 rows of 5. Draw horizontal lines to separate the rows.

$$\times \times \times \times \times$$

b. Draw an array with X's that has 4 columns of 5. Draw vertical lines to separate the columns. Fill in the blanks.

2. a. Draw an array of X's with 3 columns of 4.

b. Draw an array of X's with 3 rows of 4. Fill in the blanks below.



In the following problems, separate the rows or columns with horizontal or vertical lines.

3. Draw an array of X's with 3 rows of 3.

+ ____ + ___ = ____

3 rows of 3 =

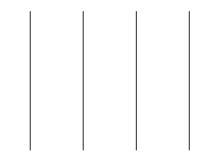
4. Draw an array of X's with 2 more rows of 3 than the array in Problem 3. Write a repeated addition equation to find the total number of X's.

5. Draw an array of X's with 1 less column than the array in Problem 4. Write a repeated addition equation to find the total number of X's.



Name	Date
1. Create an array with the squares.	

2. Create an array with the squares from the set above.



3. Use the array of squares to answer the questions below.



a. There are ____ squares in each row.

b.	+	=	

c. There are ____ squares in each column.

4. Use the array of squares to answer the questions below.

a. There are ____ squares in one row.

b. There are ____ squares in one column.

c. ____+ ___= ___

d. 3 columns of ____ = ___ total

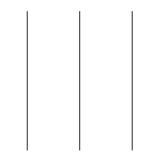
- 5. a. Draw an array with 8 squares that has 2 squares in each column.
 - b. Write a repeated addition equation to match the array.
- 6. a. Draw an array with 20 squares that has 4 squares in each column.

- b. Write a repeated addition equation to match the array.
- c. Draw a tape diagram to match your repeated addition equation and array.

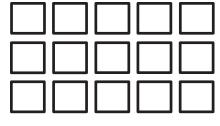


Name	Date
1. Create an array with the squares.	

2. Create an array with the squares from the set above.



3. Use the array of squares to answer the questions below.



a. There are ____ squares in each row.



c. There are ____ squares in each column.

d. ____+ ___ + ____ + ___ = ___

4. Use the array of squares to answer the questions below.

a. There are ____ squares in one row.

b. There are ____ squares in one column.

c. ____ = ___

d. 2 columns of ____ = ___ total

5. a. Draw an array with 15 squares that has 3 squares in each column.

- b. Write a repeated addition equation to match the array.
- 6. a. Draw an array with 20 squares that has 5 squares in each column.
 - b. Write a repeated addition equation to match the array.
 - c. Draw a tape diagram to match your repeated addition equation and array.

No	ame Date	
	raw an array for each word problem. Write a repeated addition equation to match sch array.	
1.	Jason collected some rocks. He put them in 5 rows with 3 stones in each row. How many stones did Jason have altogether?	
2.	Abby made 3 rows of 4 chairs. How many chairs did Abby use?	
3.	There are 3 wires and 5 birds sitting on each of them. How many birds in all are on the wires?	
4.	Henry's house has 2 floors. There are 4 windows on each floor that face the street. How many windows face the street?	•



Draw a tape diagram for each word problem. Write a repeated addition equation to match each tape diagram.

5. Each of Maria's 4 friends has 5 markers. How many markers do Maria's friends have in all?

6. Maria also has 5 markers. How many markers do Maria and her friends have in all?

Draw a tape diagram and an array. Then, write a repeated addition equation to match.

7. In a card game, 3 players get 4 cards each. One more player joins the game. How many total cards should be dealt now?



No	ame Date
	raw an array for each word problem. Write a repeated addition equation to match ch array.
1.	Melody stacked her blocks in 3 columns of 4. How many blocks did Melody stack in all?
2.	Marty arranged the desks in the classroom into 5 equal rows. There were 5 desks in each row. How many desks were arranged?
3.	The baker made 5 trays of muffins. Each tray holds 4 muffins. How many muffins did the baker make?



4.	The library books were on the shelf in 4 stacks of 4.	How many	books were	on the
	shelf?			

Draw a tape diagram for each word problem. Write a repeated addition equation to match each tape diagram.

5. Mary placed stickers in columns of 4. She made 5 columns. How many stickers did she use?

6. Jayden put his baseball cards into 5 columns of 3 in his book. How many cards did Jayden put in his book?

Draw a tape diagram and an array. Then, write a repeated addition equation to match.

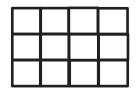
7. The game William bought came with 3 bags of marbles. Each bag had 3 marbles inside. How many total marbles came with the game?

No	ame	·	Date
	•	our square tiles to construct the following rec e a repeated addition equation to match each c	
1.	a.	Construct a rectangle with 2 rows of 3 tiles.	
	ь.	Construct a rectangle with 2 columns of 3 tile	25.
	_		
2.	a. _	Construct a rectangle with 5 rows of 2 tiles.	
	b.	Construct a rectangle with 5 columns of 2 tile	2S.

3.	a.	Construct	a rectangle	of	9	tiles	that	has	equal	rows	and	colum	nns.

b. Construct a rectangle of 16 tiles that has equal rows and columns.

4. a. What shape is the array pictured below?



b. Redraw the above shape with one column removed in the space below.

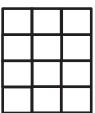
c. What shape is the array now?



Name							Date				
ov		aps. On t	uare tiles be the line, writ				_	•	gaps or construction on		
1.	a. -		of 4 tiles.	le with	_	b.		uct a rectar nns of 4 tile	_		
2.	a. Construct a rectangle with 3 rows of 2 tiles.					b. Construct a rectangle with 3 columns of 2 tiles.					
3.	α.	Constru using 10	ct a rectang) tiles.	ile	_	b. Construct a rectangle using 12 tiles.					



4. a. What shape is the array pictured below?



b. In the space below, redraw the above shape with one more column.

- c. What shape is the array now?
- d. Draw a different array of tiles that is the same shape as 4(c).



No	ame	Date					
	Use your square tiles to construct the following arrays with no gaps or overlaps. Ware repeated addition equation to match each construction.						
1.	a.	Place 8 square tiles in a row.					
	b.	Construct an array with the 8 square tiles.					
	c.	Write a repeated addition equation to match the new array.					
2							
۷.	α.	Construct an array with 12 squares.					
	a.	Write a repeated addition equation to match the array.					
	c.	Rearrange the 12 squares into a different array.					
	d.	Write a repeated addition equation to match the new array.					
							



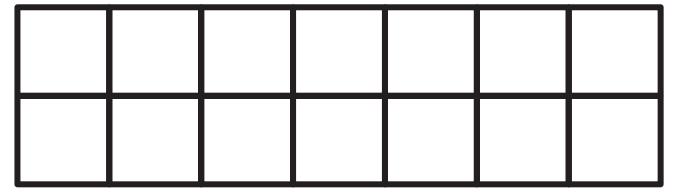
- 3. a. Construct an array with 20 squares.
 - b. Write a repeated addition equation to match the array.

- c. Rearrange the 20 squares into a different array.
- d. Write a repeated addition equation to match the new array.

- 4. Construct 2 arrays with 6 squares.
 - a. 2 rows of ____ = ____
 - b. 3 rows of ____ = 2 rows of ____
- 5. Construct 2 arrays with 10 squares.
 - a. 2 rows of ____ = ___
 - b. 5 rows of ____ = 2 rows of ____

No	ame	Date
1.	a.	Construct an array with 9 square tiles.
	b.	Write a repeated addition equation to match the array.
2.	a.	Construct an array with 10 square tiles.
	b.	Write a repeated addition equation to match the array.
	c.	Rearrange the 10 square tiles into a different array.
	d.	Write a repeated addition equation to match the new array.

Cut out each square tile. Use the tiles to construct the arrays in Problems 1-4.



- 3. a. Construct an array with 12 square tiles.
 - b. Write a repeated addition equation to match the array.

- c. Rearrange the 12 square tiles into a different array.
- d. Write a repeated addition equation to match the new array.

4. Construct 2 arrays with 14 square tiles.

a. 2 rows of ____ = ___

b. 2 rows of ____ = 7 rows of ____



Name	Date	
1 Adillo	Daic	

1. Draw without using a square tile to make an array with 2 rows of 5.

2. Draw without using a square tile to make an array with 4 columns of 3.

4 columns of 3 = _____



3.	Complete the following arrays without gaps or overlaps.	The first tile has been
	drawn for you.	

a. 3 rows of 4



b. 5 columns of 3



c. 5 columns of 4





Name _____ Date ____

1. Cut out and trace the square tile to draw an array with 2 rows of 4.

Cut out and trace.

2. Trace the square tile to make an array with 3 columns of 5.



3.	Complete the following arrays without gaps or overlaps.	The first tile has been
	drawn for you.	

a. 4 rows of 5



b. 5 columns of 2



c. 4 columns of 3





Use your square tiles to complete the steps for each problem.

Problem 1

- Step 1: Construct a rectangle with 4 columns of 3.
- Step 2: Separate 2 columns of 3.
- Step 3: Write a number bond to show the whole and two parts. Then, write a repeated addition sentence to match each part of the number bond.

Problem 2

- Step 1: Construct a rectangle with 5 rows of 2.
- Step 2: Separate 2 rows of 2.
- Step 3: Write a number bond to show the whole and two parts. Write a repeated addition sentence to match each part of the number bond.

Problem 3

- Step 1: Construct a rectangle with 5 columns of 3.
- Step 2: Separate 3 columns of 3.
- Step 3: Write a number bond to show the whole and two parts. Write a repeated addition sentence to match each part of the number bond.



4. Use 12 square tiles to construct a rectangle with 3 rows.

a. ____ rows of ____ = 12

b. Remove 1 row. How many squares are there now?

c. Remove 1 column from the new rectangle you made in 4(b). How many squares are there now? _____

5. Use 20 square tiles to construct a rectangle.

a. ____ = ___

b. Remove 1 row. How many squares are there now? _____

c. Remove 1 column from the new rectangle you made in 5(b). How many squares are there now? _____

6. Use 16 square tiles to construct a rectangle.

a. ____ = ___

- b. Remove 1 row. How many squares are there now? _____
- c. Remove 1 column from the new rectangle you made in 6(b). How many squares are there now? _____



i valle	Name	Date
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Cut out and use your square tiles to complete the steps for each problem.

Problem 1

- Step 1: Construct a rectangle with 5 rows of 2.
- Step 2: Separate 2 rows of 2.
- Step 3: Write a number bond to show the whole and two parts. Write a repeated addition sentence to match each part of your number bond.

Problem 2

- Step 1: Construct a rectangle with 4 columns of 3.
- Step 2: Separate 2 columns of 3.
- Step 3: Write a number bond to show the whole and two parts. Write a repeated addition sentence to match each part of your number bond.



3.	Use 9	square	tiles	to	construct	а	rectangle	with	3	rows

a. ____ rows of ____ = ____

b. Remove 1 row. How many squares are there now? _____

c. Remove 1 column from the new rectangle you made in 3(b). How many squares are there now? _____

4. Use 14 square tiles to construct a rectangle.

a. ____ = ___

b. Remove 1 row. How many squares are there now? _____

c. Remove 1 column from the new rectangle you made in 4(b). How many squares are there now? _____



Name	Date	
Cut out Rectangles A, B, and C. Then, cut according following using Rectangles A, B, and C^1	to directions.	Answer each of the
1. Cut out each row of Rectangle A.		
a. Rectangle A has rows.		
b. Each row has squares.		
c rows of =		
d. Rectangle A has squares.		
 Cut out each column of Rectangle B. 		
a. Rectangle B has columns.		
d. Recruigle D has columns.		
b. Each column has squares.		
c columns of =		
d. Rectangle B has squares.		

¹Note: This Problem Set is used with a template of three identical 2 by 4 arrays. These arrays are labeled as Rectangles A, B, and C.

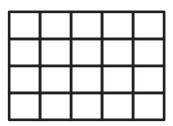


3.	Cu	t out each square from both Rectangles A and B.
	a.	Construct a new rectangle using all 16 squares.
	b.	My rectangle has rows of
	c.	My rectangle also has columns of
	d.	Write two repeated addition number sentences to match your rectangle.
4.		nstruct a new array using the 24 squares from Rectangles A, B, and C. My rectangle has rows of
	b.	My rectangle also has columns of
	c.	Write two repeated addition number sentences to match your rectangle.
Ex	ten	sion: Construct another array using the squares from Rectangles A , B , and C .

- a. My rectangle has _____ rows of _____.
- b. My rectangle also has _____ columns of _____.
- c. Write two repeated addition number sentences to match your rectangle.

No	ıme	Date	-
1.	Im	agine that you have just cut this rectangle into rows.	
	a.	What do you see? Draw a picture.	
		How many squares are in each row?	
	b.	Imagine that you have just cut this rectangle into columns. What do you see Draw a picture.	?
		How many squares are in each column?	
2.	Cr	cate another rectangle using the same number of squares.	
		How many squares are in each row?	
		How many squares are in each column?	

- 3. Imagine that you have just cut this rectangle into rows.
 - a. What do you see? Draw a picture.



How many squares are in each row? _____

b. Imagine that you have just cut this rectangle into columns. What do you see? Draw a picture.

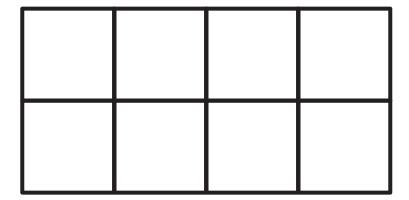
How many squares are in each column?

4. Create another rectangle using the same number of squares.

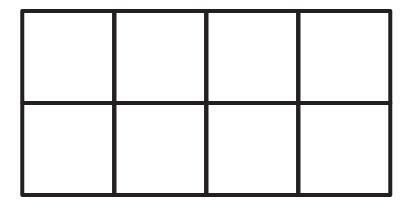
How many squares are in each row? _____

How many squares are in each column? _____

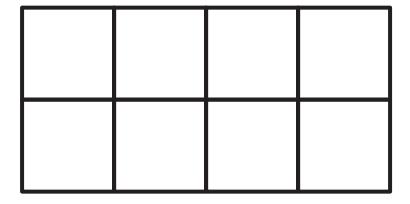
Rectangle A



Rectangle B



Rectangle C



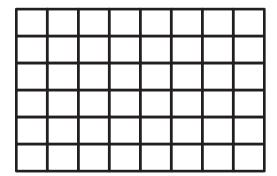
rectangles



Lesson 14:

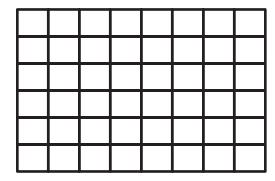
Use scissors to partition a rectangle into same-size squares, and compose arrays with the squares.

1. Shade in an array with 2 rows of 3.



Write a repeated addition equation for the array.

2. Shade in an array with 4 rows of 3.

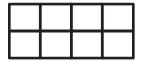


Write a repeated addition equation for the array.

3. Shade in an array with 5 columns of 4.

Write a repeated addition equation for the array.

4.	Draw	one	more	column	of	2	to	make	а	new	array	١.
----	------	-----	------	--------	----	---	----	------	---	-----	-------	----



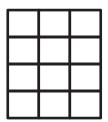
Write a repeated addition equation for the new array.

5. Draw one more row of 4 and then one more column to make a new array.



Write a repeated addition equation for the new array.

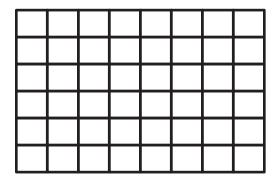
6. Draw one more row and then two more columns to make a new array.



Write a repeated addition equation for the new array.

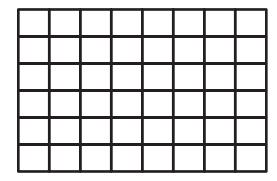
Name	Date	
	_	

1. Shade in an array with 3 rows of 2.



Write a repeated addition equation for the array.

2. Shade in an array with 2 rows of 4.

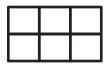


Write a repeated addition equation for the array.

3. Shade in an array with 4 columns of 5.

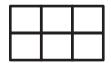
Write a repeated addition equation for the array.

4.	Draw	one	more	column	of	2	to	make	а	new	array	/.
----	------	-----	------	--------	----	---	----	------	---	-----	-------	----



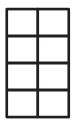
Write a repeated addition equation for the new array.

5. Draw one more row of 3 and then one more column to make a new array.



Write a repeated addition equation for the new array.

6. Draw one more row and then two more columns to make a new array.



Write a repeated addition equation for the new array.

Name Date

Use your square tiles and grid paper to complete the following problems.

Problem 1

- a. Cut out 10 square tiles.
- b. Cut one of your square tiles in half diagonally.
- c. Create a design.
- d. Shade in your design on grid paper.

Problem 2

- a. Use 16 square tiles.
- b. Cut two of your square tiles in half diagonally.
- c. Create a design.
- d. Shade in your design on grid paper.
- e. Share your second design with your partner.
- f. Check each other's copy to be sure it matches the tile design.

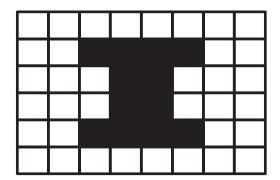
Problem 3

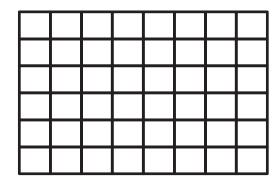
- a. Create a 3 by 3 design with your partner in the corner of a new piece of grid paper.
- b. With your partner, copy that design to fill the entire paper.



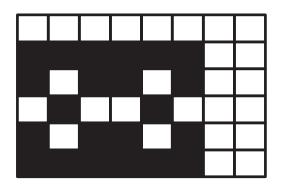
Date ____

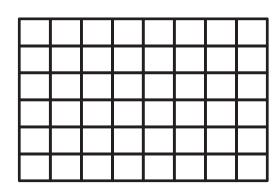
1. Shade to create a copy of the design on the empty grid.



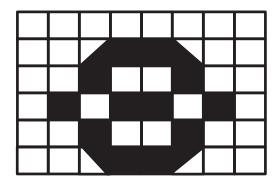


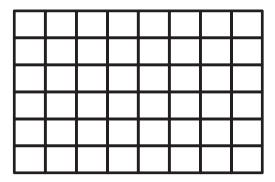
b.



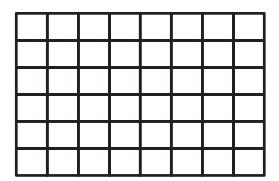


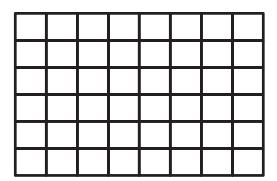
C.



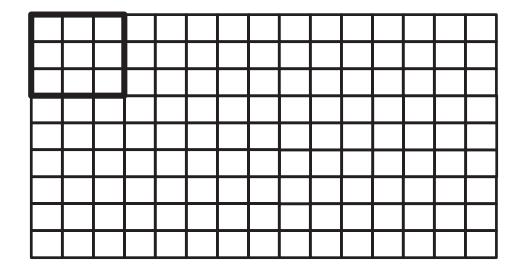


2. Create two different designs.





3. Use colored pencils to create a design in the bolded square section. Create a tessellation by repeating the design throughout.



grid paper

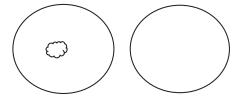


Use grid paper to create designs to develop spatial structuring. Lesson 16:

Date

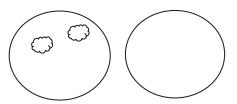
1. Draw to double the group you see. Complete the sentence, and write an addition equation.

α.



There is _____ cloud in each group.

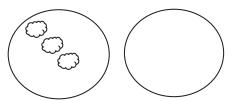
b.



There are _____ clouds in each group.

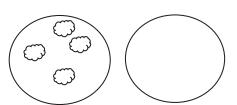
_____+ ____= _____

C.



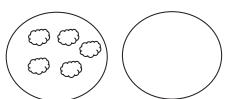
There are _____ clouds in each group.

d.



There are _____ clouds in each group.

e.



There are _____ clouds in each group.

- 2. Draw an array for each set. Complete the sentences. The first one has been drawn for you.
 - a. 2 rows of 6



2 rows of 6 = _____

_____ + ____ = ____

6 doubled is _____.

b. 2 rows of 7

2 rows of 7 =

_____ + ____ = ____

7 doubled is _____.

c. 2 rows of 8

2	rows	of	8	=	

_____ + ____ = ____

8 doubled is _____.

d. 2 rows of 9

2 rows of 9 =

____ + ____ = ____

9 doubled is .

e. 2 rows of 10

2 rows of 10 =

_____ + ____ = ____

10 doubled is _____.

3. List the totals from Problem 1.

List the totals from Problem 2.

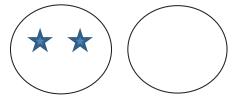
Are the numbers you have listed even or not even?

Explain in what ways the numbers are the same and different.

Date

1. Draw to double the group you see. Complete the sentences, and write an addition equation.

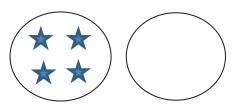
α.



There are _____ stars in each group.

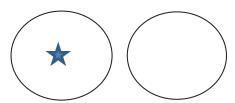
_____+ ____= ____

b.



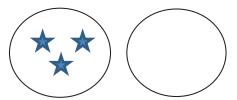
There are _____ stars in each group.

C.



There is _____ star in each group.

d.



There are _____ stars in each group.

e.





There are _____ stars in each group.

- 2. Draw an array for each set. Complete the sentences. The first one has been drawn for you.
 - a. 2 rows of 6



2 rows of 6 = _____

_____ + ____ = ____

6 doubled is _____.

c. 2 rows of 8

____ rows of ____ = ___

+ 8 = ____

8 doubled is .

b. 2 rows of 7

2 rows of 7 =

_____ + ____ = ____

7 doubled is _____.

d. 2 rows of 9

2 rows of 9 =

____+ ___ = ____

9 doubled is _____.

e. 2 rows of 10

____ rows of ____ = ____

10 + ____ = ____

10 doubled is _____.

3. List the totals from Problem 1.

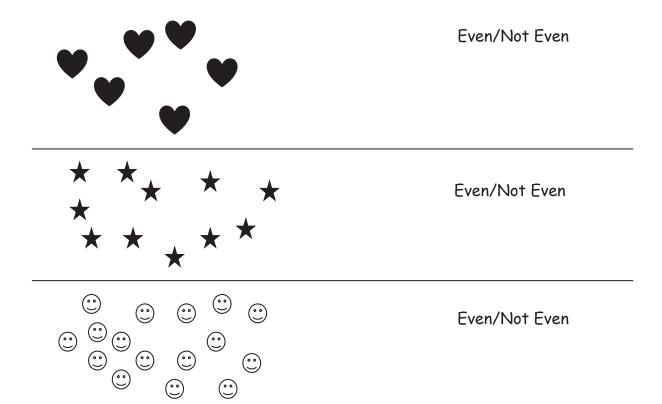
List the totals from Problem 2.

Are the numbers you have listed even or not even?

Explain in what ways the numbers are the same and different.

Date

1. Pair the objects to decide if the number of objects is even.



2. Draw to continue the pattern of the pairs in the space below until you have drawn 10 pairs.



- 3. Write the number of dots in each array in Problem 2 in order from least to greatest.
- 4. Circle the array in Problem 2 that has 2 columns of 7.
- 5. Box the array in Problem 2 that has 2 columns of 9.
- 6. Redraw the following sets of dots as columns of two or 2 equal rows.

a.



b.

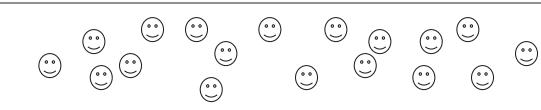


There are _____ dots.

There are _____ dots.

Is ____ an even number? ____ Is ___ an even number? ____

7. Circle groups of two. Count by twos to see if the number of objects is even.



- a. There are _____ twos. There are _____ left over.
- b. Count by twos to find the total.
- c. This group has an even number of objects: True or False

Name	Date
1. Pair the objects to decide if the num	ber of objects is even.
	Even/Not Even
	Even/Not Even
	Even/Not Even
2. Draw to continue the pattern of the pattern of the pattern pairs.	pairs in the spaces below until you have draw

00	00				
~ ~	00				
~ ~	00				
~ ~	00				
~ ~	00				
00	00				
& &	00				
00	00				
		i I			

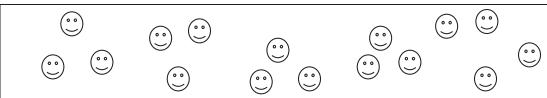
- 3. Write the number of hearts in each array in Problem 2 in order from greatest to least.
- 4. Circle the array in Problem 2 that has 2 columns of 6.
- 5. Box the array in Problem 2 that has 2 columns of 8.
- 6. Redraw the set of stars as columns of two or 2 equal rows.



There are _____ stars.

Is ____ an even number? ____

7. Circle groups of two. Count by twos to see if the number of objects is even.



- a. There are _____ twos. There are _____ left over.
- b. Count by twos to find the total.
- c. This group has an even number of objects: True or False.

No	ame							Date			
1.	Skip-cou	nt the	columns	in the	array.	The fir:	st one h	nas beei	n done f	or you.	
	_	_	$\overline{}$	_	_	\bigcirc	_	$\overline{}$	_	_	
	2										

2. a. Solve.

b.	Explain the connection between the array in Problem 1 and the answers in Problem 2(a).

3.	a.	Fill in	the	missing	numbers	on	the	number	path

20, 22, 24, ____, 28, 30, ____, 36, ____, 40, ____, 46, ____,

b. Fill in the odd numbers on the number path.

0, ____, 2, ____, 4, ____, 6, ____, 8 ____, 10, ____, 12, ____, 14, ____, 16, ____, 18, ____, 20, ____

4. Write to identify the **bold** numbers as even or odd. The first one has been done for you.

a.		b.	c.
	6 + 1 = 7	24 + 1 = 25	30 + 1 = 31
	<u>even</u> + 1 = <u>odd</u>	+ 1 =	+ 1 =
		e.	f.
d.	6 - 1 = 5	24 - 1 = 23	30 - 1 = 29
	-1=	1 =	1 =

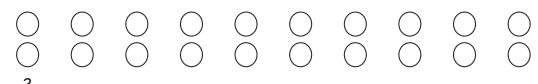
5. Are the **bold** numbers even or odd? Circle the answer, and explain how you know.

a.	28 even/odd	Explanation:
b.	39 even/odd	Explanation:
C.	45 even/odd	Explanation:
d.	50 even/odd	Explanation:

Name _____

Date

1. Skip-count the columns in the array. The first one has been done for you.



2. a. Solve.

b. How is the array in Problem 1 related to the answers in Problem 2(a)?

3. Fill in the missing even numbers on the number path.

18, 20, _____, 26, _____ 30, _____, 34, _____, 38, 40, _____,

4. Fill in the missing odd numbers on the number path.

0, ____, 2, ____, 4, ____, 6, ____, 8, ____, 10, ____, 12, ____, 14

5. Write to identify the **bold** numbers as even or odd. The first one has been done for you.

a.	b.	C.
4 + 1 = 5	13 + 1 = 14	20 + 1 = 21
<u>even</u> + 1 = <u>odd</u>	+ 1 =	+ 1 =
d.	e.	f.
8 - 1 = 7	16 - 1 = 15	30 - 1 = 29
-1=	1 =	1 =

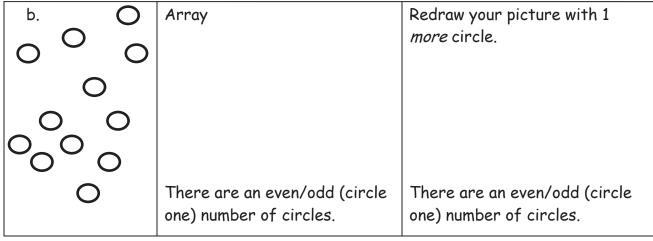
6. Are the **bold** numbers even or odd? Circle the answer, and explain how you know.

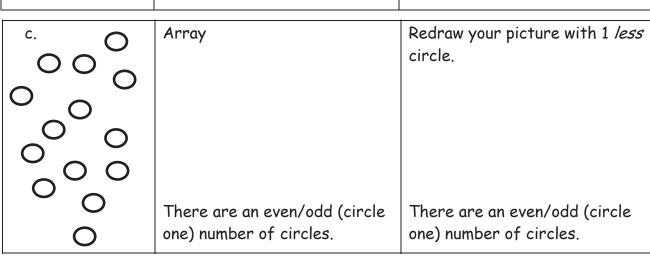
a.	Explanation:
21 even/odd	
b.	Explanation:
34	
even/odd	

Name _____ Date ____

1. Use the objects to create an array.

a. O	0	Array	Redraw your picture with 1 <i>less</i> circle.
0	0		
0	O		
0	0	There are an even/odd (circle one) number of circles.	There are an even/odd (circle one) number of circles.
L		Anna	Dadraw vaus siatusa with 1







2. Solve. Tell if each number is odd (O) or even (E). The first one has been done for you.

a. 6 10 d. 14 8

E = Е

b. 17 2 e. 3 9

c. 11 13 f. 5 14

- 3. Write two examples for each case. Write if your answers are even or odd. The first one has been started for you.
 - a. Add an even number to an even number.

32 + 8 = 40 even

b. Add an odd number to an even number.

c. Add an odd number to an odd number.

Name Date

1. Use the objects to create an array with 2 rows.

a. * * * * * * * *	Array with 2 rows	Redraw your picture with 1 less star.
*	There are an even/odd (circle one) number of stars.	There are an even/odd (circle one) number of stars.
b.	Array with 2 rows	Redraw your picture with 1 more star.
* *	There are an even/odd (circle one) number of stars.	There are an even/odd (circle one) number of stars.
c.	Array with 2 rows	Redraw your picture with 1 less star.
* *	There are an even/odd (circle one) number of stars.	There are an even/odd (circle one) number of stars.

2. Solve. Tell if each number is odd (O) or even (E) on the line below.

3. Write three number sentence examples to prove that each statement is correct.

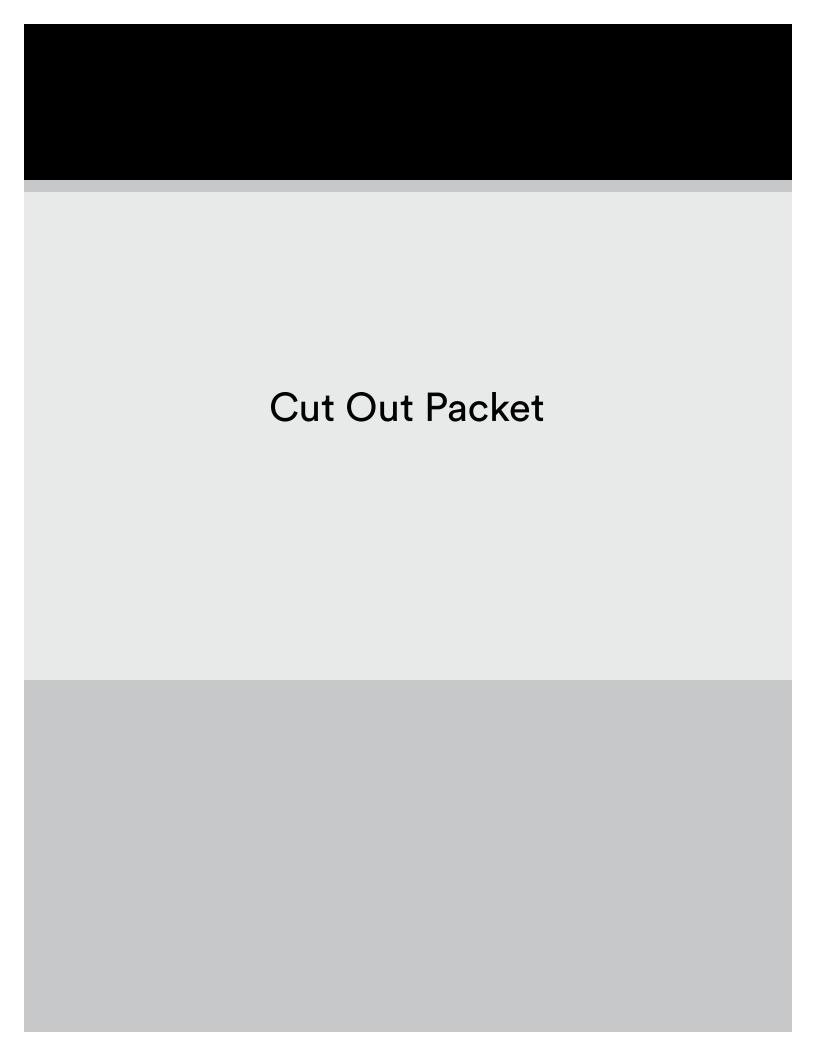
Even + Even = Even	Even + Odd = Odd	Odd + Odd = Even

- 4. Write two examples for each case. Next to your answer, write if your answers are even or odd. The first one has been done for you.
 - a. Add an even number to an even number.

32 + 8 = 40 even

- b. Add an odd number to an even number.
- c. Add an odd number to an odd number.

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