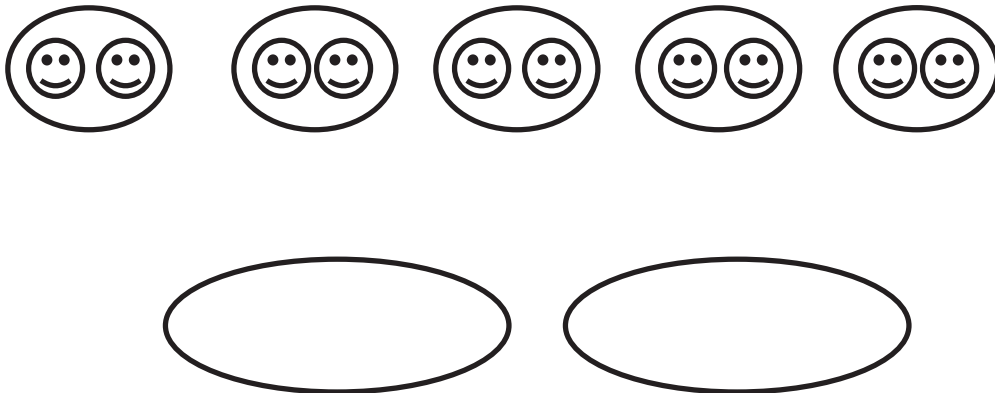# EUREKA MATH PUSD

formative

Exit Tickets

Name _____    Date _____

1.  Circle groups of 4 hats.

2.  Redraw the smiley faces into 2 equal groups.

2 groups of _____ = _____.

EUREKA
MATH

Name _____     Date _____

1.  Draw 1 more equal group.



_____ + _____ + _____ + _____ = _____
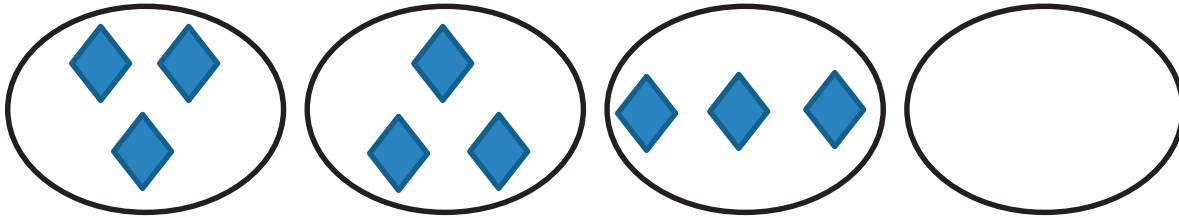

4 groups of _____ = _____


2.  Draw 2 groups of 3 stars.  Then, write a repeated addition equation to match.

**EUREKA MATH**

**Lesson 2:**  Use math drawings to represent equal groups, and relate to repeated addition.

**2**

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Name _____    Date _____

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 \_\_\_\_\_

EUREKA MATH

Lesson 3:    Use math drawings to represent equal groups, and relate to repeated addition.

3
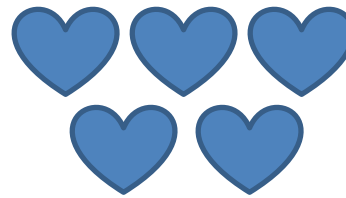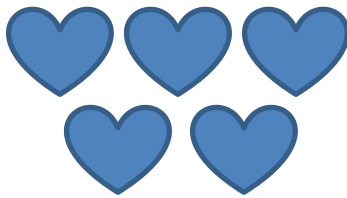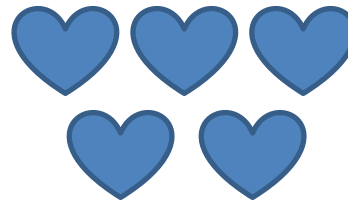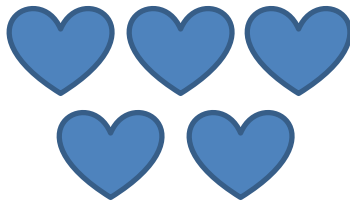
Name _____    Date _____

Draw a tape diagram to find the total.

1. ★ ★ ★ ★  ★ ★ ★ ★  ★ ★ ★ ★

2. 3 groups of 3

3. 2 + 2 + 2 + 2 + 2

EUREKA MATH™

Lesson 4:   Represent equal groups with tape diagrams, and relate to repeated addition.

4

Name _____   Date _____

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

   _____

   _____

   _____
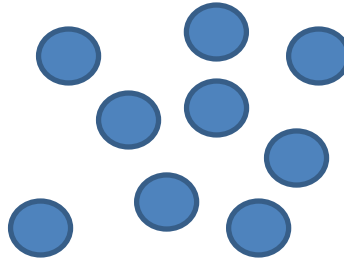
2. Complete the array by drawing more triangles.  The array should have 12 triangles in all.

**Lesson 5:**   Compose arrays from rows and columns, and count to find the total
using objects.

**5**

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MATH
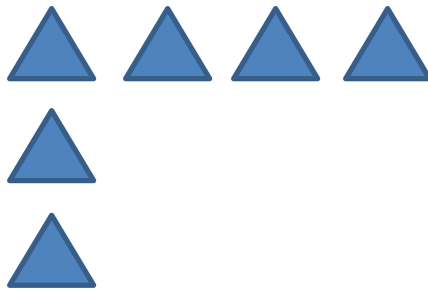
Name _____      Date _____

Use the array to answer the questions below.

a.  _____ rows of _____ = _____

b.  _____ columns of _____ = _____

c.  _____ + _____ + _____ + _____ = _____

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

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

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**Lesson 6:**    Decompose arrays into rows and columns, and relate to repeated addition.

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6

Name _____   Date _____

Use horizontal or vertical lines to separate the rows or columns.

1.  Draw an array of X's with 3 rows of 5.

    ___ + ___ + ___ = ___

    3 rows of 5 = _____

2.  Draw an array of X's with 1 more row than the above array.  Write a repeated addition equation to find the total number of X's.

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**Lesson 7:**   Represent arrays and distinguish rows and columns using math drawings.

**7**

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Name _____     Date _____

1.  Use the array of squares to answer the questions below.
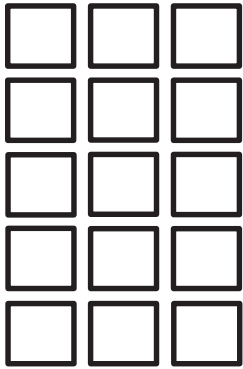
    a.  There are _____ squares in one row.

    b.  There are _____ squares in one column.

    c.  _____ + _____ + _____ = _____

    d.  3 columns of _____ = _____ rows of _____ = _____ total

2.  a.  Draw an array with 10 squares that has 5 squares in each column.

    b.  Write a repeated addition equation to match the array.

Name _____     Date _____

Draw a tape diagram or an array for each word problem.  Then, write a repeated addition equation to match.

1.  Joshua cleans 3 cars every hour at work.  He worked 4 hours on Saturday.  How many cars did Joshua clean on Saturday?

2.  Olivia put 5 stickers on each page in her sticker album.  She filled 5 pages with stickers.  How many stickers did Olivia use?

**EUREKA MATH**

**Lesson 9:**   Solve word problems involving addition of equal groups in rows and columns.

**9**

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Name _____     Date _____

On this sheet, use your square tiles to construct the following arrays with no gaps or overlaps on this sheet.  Write a repeated addition equation to match your construction.

1.  a.  Construct a rectangle with 2 rows of 5 tiles.

    b.  Write the repeated addition equation. _____

2.  a.  Construct a rectangle with 5 columns of 2 tiles.

    b.  Write the repeated addition equation. _____

**EUREKA MATH**™

**Lesson 10:**     Use square tiles to compose a rectangle, and relate to the array model.

**10**

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Name _____    Date _____

a. Construct an array with 12 square tiles.



b. Write a repeated addition equation to match the array.


_____

Name _____     Date _____

Draw an array of 3 columns of 3 starting with the square below without gaps or overlaps.

Name _____    Date _____

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

Step 1:  Construct a rectangle with 3 columns of 4.

Step 2:  Separate 2 columns of 4.

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.

Name _____   Date _____

With your tiles, show 1 rectangle with 12 squares.  Complete the sentences below.

I see _____ rows of _____.

In the exact same rectangle, I see _____ columns of _____.

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**Lesson 14:**    Use scissors to partition a rectangle into same-size squares, and
compose arrays with the squares.

**14**

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Name _____    Date _____

Shade in an array with 3 rows of 5.
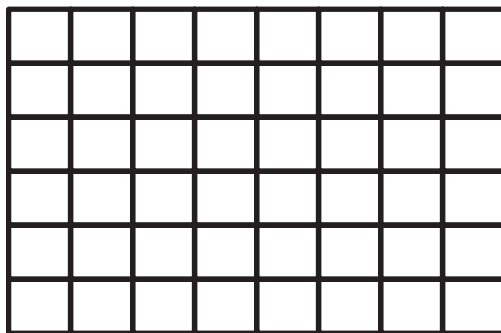


Write a repeated addition equation for the array.

_____

EUREKA MATH

**Lesson 15:**     Use math drawings to partition a rectangle with square tiles, and relate to repeated addition.

**15**

Name _____     Date _____

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

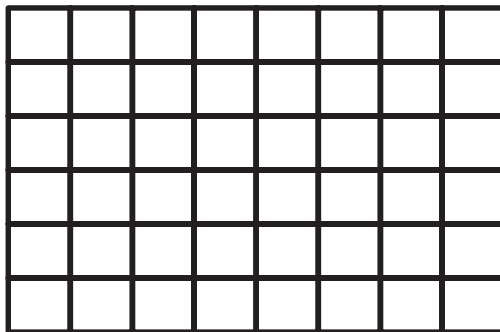    a.  Create a design with the paper tiles you used in the lesson.

    b.  Shade in your design on the grid paper.

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

16

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Name _____     Date _____

Draw an array for each set.  Complete the sentences.

  a.  2 rows of 5

  2 rows of 5 = _____

  _____ + _____ = _____

  Circle one:  5 doubled is even/not even.

  b.  2 rows of 3

  2 rows of 3 = _____

  _____ + _____ = _____

  Circle one:  3 doubled is even/not even.

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**Lesson 17:**     Relate doubles to even numbers, and write number sentences to
                   express the sums.

**17**

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Name _____ Date _____

Redraw the following sets of dots as columns of two or 2 equal rows.

1.



2.



There are _____ dots.

Is _____ an even number? _____

There are _____ dots.
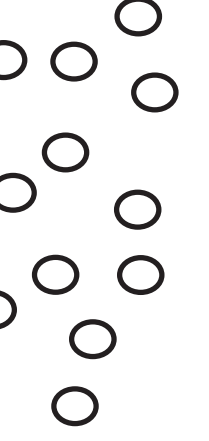
Is _____ an even number? _____

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**Lesson 18:** Pair objects and skip-count to relate to even numbers.

**18**

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Name _____ Date _____

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

| a.<br><br>**18**<br>even/odd | Explanation: |
|---|---|
| b.<br><br>**23**<br>even/odd | Explanation: |

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**Lesson 19:**  Investigate the pattern of even numbers:  0, 2, 4, 6, and 8 in the ones place, and relate to odd numbers.

**19**

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Name _____          Date _____

Use the objects to create an array.

|  | Array | Redraw your picture with 1 *less* circle. |
| | There are an even/odd (circle one) number of circles. | There are an even/odd (circle one) number of circles. |