2.6.1

Application Problem (6 minutes)

Julisa has 12 stuffed animals. She wants to put the same number of animals into each of 3 baskets. Draw a picture to show how she can put the animals into 3 equal groups. Then complete the sentence.

Julisa can put ___ animals into each basket.

Julisa put 4 animals in each basket.

2.6.2

Application Problem (6 minutes)

Mayra sorts her socks by color. She has 4 purple socks, 4 yellow socks, 4 pink socks, and 4 orange socks. Draw groups to show how Mayra sorts her socks. Then write an addition sentence to match. How many socks does Mayra have in all?
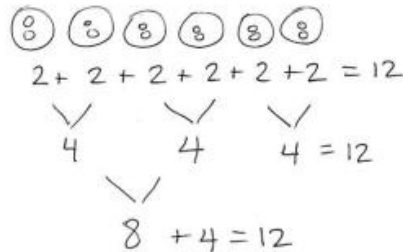
$4 + 4 + 4 + 4 = 16$

Mayra has 16 socks.

2.6.3

Application Problem (8 minutes)

Markers come in packs of 2. If Jessie has 6 packs of markers, how many markers does she have in all?

a. Draw groups to show Jessie's packs of markers.

b. Write a repeated addition sentence to match your drawing.

c. Group addends into pairs and add to find the total.

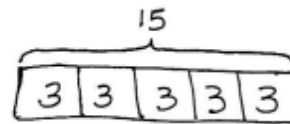$2 + 2 + 2 + 2 + 2 + 2 = 12$

$4 \qquad 4 \qquad 4 = 12$

$8 + 4 = 12$

Jessie has 12 markers.

2.6.4

Application Problem (6 minutes)

The flowers are blooming in Maria's garden. There are 3 roses, 3 buttercups, 3 sunflowers, 3 daisies, and 3 tulips. How many flowers are there in all?

a. Draw a tape diagram to match the problem.

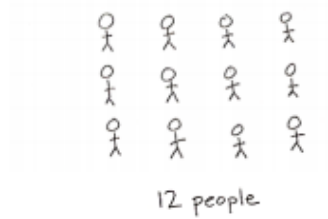b. Write a repeated addition sentence to solve.

15

| 3 | 3 | 3 | 3 | 3 |

$3 + 3 + 3 + 3 + 3 = 15$

There are 15 flowers.

2.6.5

Mrs. White is in line at the bank. There are 4 teller windows, and 3 people are standing in line at each window.

    a. Draw an array to show the people in line at the bank.

    b. Write the total number of people.

12 people

2.6.6

Sam is organizing her greeting cards. She has 8 red cards and 8 blue cards. She puts the red ones in 2 columns and the blue ones in 2 columns to make an array.

    a. Draw a picture of Sam's greeting cards in the array.

    b. Write a statement about Sam's array.
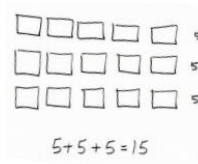
$8 + 8 = 16$

Sam has 16 cards.

2.6.7

Bobby puts 3 rows of tile in his kitchen to make a design. He lays 5 tiles in each row.

    a. Draw a picture of Bobby's tiles.

$5 + 5 + 5 = 15$

2.6.8

Charlie has 16 blocks in his room. He wants to build equal towers with 5 blocks each.

    a. Draw a picture of Charlie's towers.

    b. How many towers can Charlie make?

    c. How many more blocks does Charlie need to make equal towers of 5?

    d. Draw a picture of a different way Charlie could make equal towers using exactly 16 blocks.

Charlie needs 4 more blocks to make equal towers of 5.

2.6.9

No application problem

2.6.10

No application problem

2.6.11

Application Problem (4 minutes)

Sandy's toy telephone has buttons arranged in 3 columns and 4 rows.

    a. Draw a picture of Sandy's telephone.

    b. Write a number sentence to show the total number of buttons on Sandy's telephone.

$3+3+3+3 = 12$ buttons

2.6.12

Application Problem (4 minutes)

Lulu made a pan of brownies. She cut them into 3 rows and 3 columns.

    a. Draw a picture of Lulu's brownies in the pan.

    b. Write a number sentence to show how many brownies Lulu has.

    c. Write a statement about Lulu's brownies.

Extension: How should Lulu cut her brownies if she wants to serve 12 people? 16 people? 20 people?

$3+3+3 = 9$ brownies.

Lulu has 9 brownies.

2.6.13

Application Problem (4 minutes)

Ellie bakes a square pan of 9 lemon bars. Her brothers eat 1 row of her treats. Then her mom eats 1 column.

    a. Draw a picture of Ellie's lemon bars before any are eaten. Write a number sentence to show how to find the total.

    b. Write an X on the bars that her brothers eat. Write a new number sentence to show how many are left.

    c. Draw a line through the bars that her mom eats. Write a new number sentence to show how many are left.

    d. How many bars are left? Write a statement.
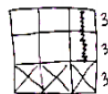
a) $3+3+3 = 9$

b) $9-3 = 6$
   or
  $3+3 = 6$

c) $6-2 = 4$
   or
  $2+2 = 4$

d) There are 4 lemon bars left.

2.6.14

No application problem

2.6.15

Application Problem (6 minutes)

Rick is filling his muffin pan with batter. He fills 2 columns of 4. One column of 4 is empty. Draw to show the muffins and the empty column. Then write a repeated addition sentence to tell how many muffins Rick makes and how many muffin cups there are in the pan.

$4 + 4 = 8$

Rick makes 8 muffins.
There are 12 muffin cups.

2.6.16

Application Problem (5 minutes)

Rick is baking muffins again. He filled 3 columns of 3, and left one column of 3 empty. Color the pan to show what the muffin pan looked like. Write a repeated addition sentence to tell how many muffins he makes and how many muffin cups are in the whole pan.
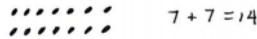
$3 + 3 + 3 = 9$

Rick makes 9 muffins.
There are 12 muffin cups.

2.6.17

Application Problem (6 minutes)

Seven students sit on one side of a lunch table. Seven more students sit across from them on the other side of the table.

   a. Draw an array to show the students.

   b. Write an addition sentence that matches the array.

$7 + 7 = 14$

Three more students sit down on each side of the table.

   c. Draw an array to show how many students there are now.

   d. Write an addition sentence that matches the new array.

$10 + 10 = 20$

2.6.18

Application Problem (5 minutes)

Eggs come in cartons of 12. Use pictures, numbers, or words to explain whether 12 is even or not even.
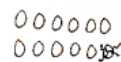
12 is even because the eggs look like this.

2 rows of 6 is the same as 6+6 so 12 is even.

2.6.19

Application Problem (5 minutes)

Eggs come in cartons of 12. Joanna's mom used 1 egg. Use pictures, numbers, or words to explain whether the amount left is even or odd.

$12 - 1 = 11$

11 is odd because you can't count by 2's to 11.

2.6.20

Mrs. Boxer has 11 boys and 9 girls at a Grade 2 party.

  a. Write the number sentence to show the total
      number of people.

  b. Are the addends even or odd?

  c. Mrs. Boxer wants to pair everyone up for a game.
      Does she have the right number of people for
      everyone to have a partner?