Operations AND Algebraic Thinking Standards

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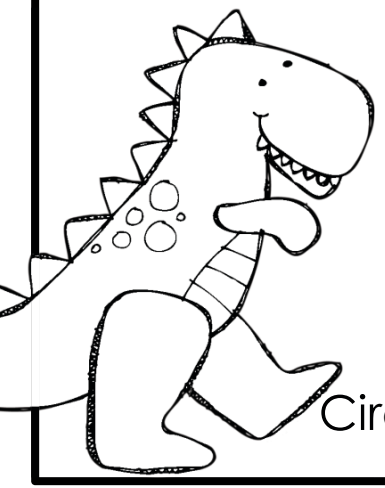
Name _____

Dino Dig

Alayna and Oliver are solving this problem.

"Professor Smith was counting the dinosaur fossils she saw at a museum. She saw 13 T-rex fossils and 2 allosaurus fossils. How many fossils did Professor Smith see in all?"

Alayna and Oliver wrote these number sentences to solve the problem.



ALAYNA

2 + ___ = 13

OLIVER

13 + 2 = ____

Who is correct? Circle his or her answer.

Solve on your own:

Explain the mistake that the incorrect person made.

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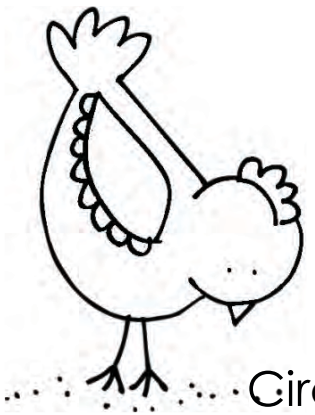
Name _____

Chickens and Eggs

Roxy and Ruben are solving this problem.

"There are some chickens and eggs on a farm. After the 12 eggs hatch, there are a total of 31 chickens on the farm. How many chickens were there before the eggs hatched?"

Roxy and Ruben wrote these number sentences to solve the problem.



RUBEN

31 + 12 = ___

ROXY

___ + 12 = 31

Who is correct? Circle his or her answer.

Solve on your own:

Explain the mistake that the incorrect person made.

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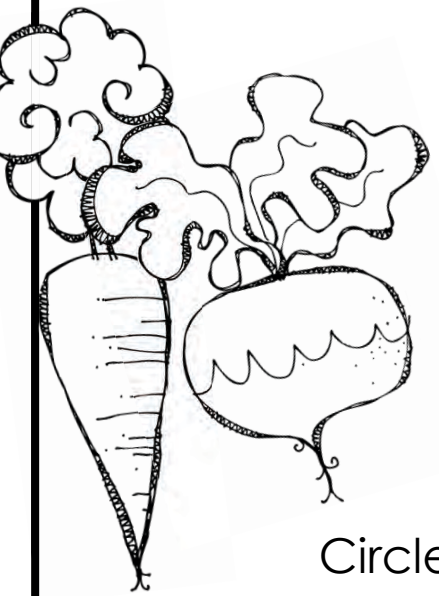
Vegetable Garden

Maliah and Thomas are solving this problem.

"A gardener picks 54 carrots and 23 radishes. At lunch, he makes a salad using 14 of his vegetables. How many vegetables does the gardener have left?"

Maliah and Thomas reached these answers.



MALIAH
77 vegetables

THOMAS
63 vegetables

Who is correct?
Circle his or her answer.

Solve on your own:

Explain the mistake that the incorrect person made.

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Seashells

Peyton and Kiera are solving this problem.

"Each day, Roger goes to the beach to collect seashells. On Monday he collected 15 shells. On Tuesday he collected 23 shells. On Wednesday he collected 68 shells. How many fewer shells did Roger collect on Monday than on Tuesday and Wednesday?"

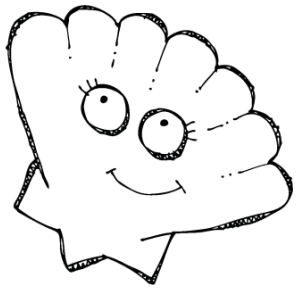
Peyton and Kiera wrote these number sentences to solve the problem.

PEYTON

15 + 23 + 68 = ___

KIERA

68 + 23 – 15 = ___



Who is correct?
Circle his or her answer.

Solve on your own:

Explain the mistake that the incorrect person made.

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Refreshing Lemonade

Alice and Thomas are solving this problem.

"There were 15 ice cubes in a glass of lemonade. Some ice cubes melted, then there were 9 ice cubes in the glass. How many ice cubes melted?"

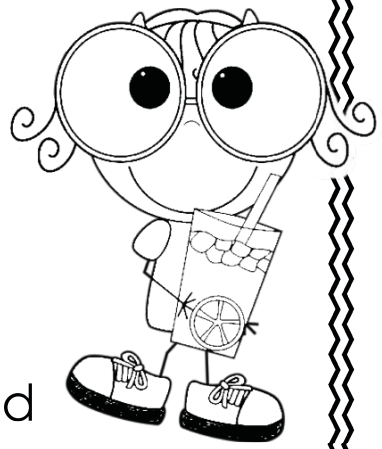
Alice and Thomas reached these answers.

ALICE

6 ice cubes melted

THOMAS

24 ice cubes melted



Who is correct?
Circle his or her answer.

Solve on your own:

Explain the mistake that the incorrect person made.

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Name _____

Equation Question

Eva and Donnie are trying to decide if this equation is true or false.

$$7 + 7 = 14 + 4$$

Eva and Donnie have different answers.

Eva says the equation is false because 14 is not equal to 18.

Donnie says the equation is true because 7 plus 7 equals 14.

Donnie

Eva

Who is correct?

Circle the name of the person who is right.

Solve on your own:

Explain the mistake that the incorrect person made.

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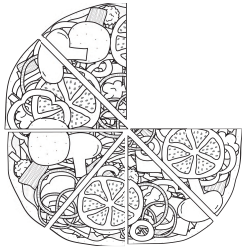
Name _____

Pizza Puzzle

Bella, Philip and Levi are eating pizza. They want to know if they have an odd or even amount of pizza. Their pizza is shown below.



Bella says there is an even amount of pizza because you can count the slices by 2s and they will all be counted.

Philip says there is an even amount of pizza because 3+3=6. Since the addends are equal, there is an even amount.

Levi says there is an even amount of pizza because he can pair the slices and none of the slices are alone.

BELLA **PHILIP** **LEVI**

Who is correct?

Circle the name of the person who is right.

Solve on your own:

Explain how you know your choice is correct. Use pictures and numbers to help.

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Flower Shop

Hannah and Jacob are solving this problem:

"Ian went to a flower shop. He saw 5 vases of flowers. Each vase held 2 flowers. Was there an even or odd number of flowers in the shop?"

Hannah says there was an odd number of flowers because there were 5 vases. 5 is odd because you don't say that number when you count by 2s (2, 4, 6).

Jacob says there was an even number of flowers because when you count by 2s, you'll always have an even number. He says you can count by 2s five times to find the amount of flowers in the shop.

HANNAH JACOB

Who is correct?

Circle the name of the person who is right.

Solve on your own:

Explain the mistake the incorrect person made.

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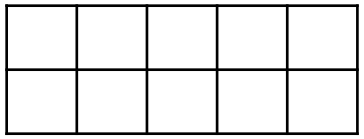
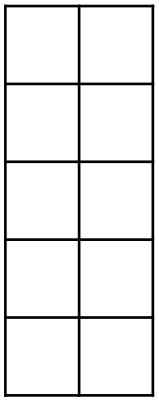
Repeated Addition

Natalie and David are drawing a model to match the equation 2+2+2+2+2. They drew these pictures:

NATALIE



DAVID



Both Natalie and David say the other student is incorrect because their model has only 2 groups.

Who is correct?
Circle his or her answer.

Solve on your own:

Explain the error the incorrect person made.

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Baseball Organizing

Andrew and Eva are solving this problem:

"Derek organized his baseballs into 3 rows with 5 baseballs in each row. Write an equation to find out how many baseballs Derek has."

Andrew says the answer is 5 + 3, so Derek has 8 baseballs.

Eva says the answer is 5+5+5, so Derek has 15 baseballs.

ANDREW EVA

Who is correct?
Circle his or her answer.

Solve on your own:

Explain the error the incorrect person made.

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