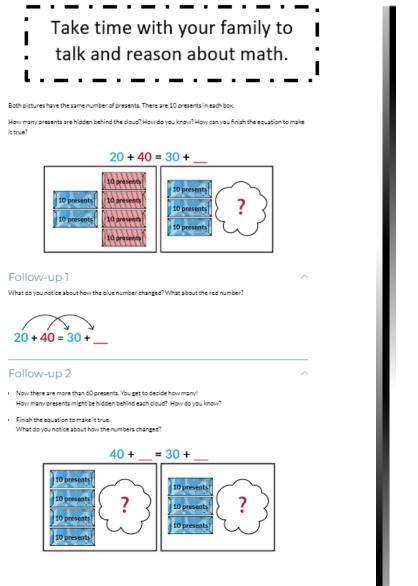
January Math Newsletter

Grades 2-3



Look at the two pictures. What do you notice?



1. How are pictures A and B mathematically the same, and how are they different?

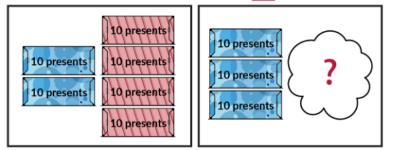
- A and B are the same because...
- A and B are different because...

2. Make a third set of mittens. Explain how your picture is the same as pictures A and B, and how it is different.



Possible thinking/reasoning for the activities on the front

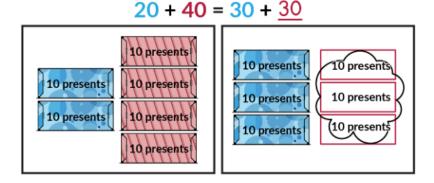
20 + 40 = 30 + 30



Numbers chosen by students will vary. Responses should have the same total amount on both sides of the equal sign. Here's one possible solution:

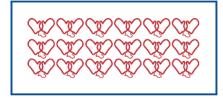
You might hear students say:

I see 6 boxes of presents in the first picture. I know there are 10 in each box so that's 60 presents: 10, 20, 30, 40, 50, 60. I also see 3 boxes of presents in the second picture, so I know you need 3 more boxes to make 6 boxes. That's 3 boxes, or 30 presents, in the second picture.



1. How are pictures A and B mathematically the same, and how are they different?

- A and B are the same because they both have more columns than rows. They both look like arrays. They both show pairs of mittens. They both show 6 equal columns of pairs of mittens. They can both show a multiplication problem with a factor of 6.
- A and B are different because they have different numbers of rows and different totals. A has 5 rows of 6 pairs of mittens, which is equal to 30 pairs of mittens. B has 4 rows of 6 mittens, which is equal to 24 pairs total.
- 2. Make a third set of mittens. Explain how your picture is the same as pictures A and B, and how it is different.



My array is the same as A and B because it is an array of mittens with 6 columns. It also has more columns than rows like A and B do. Mine is different from A and B because it has a different number of rows and a different total than A or B. Another difference is I only have red mittens in my array.

Interactive Math Games

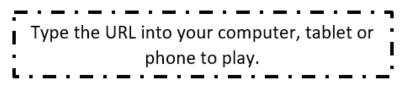
Add Numbers by Making 10 Game

https://www.splashlearn.com/s/math-games/add-numbers-by-

making-10

Understand Rows in an Array Game

https://www.splashlearn.com/s/math-games/understand-rows-i n-an-array



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