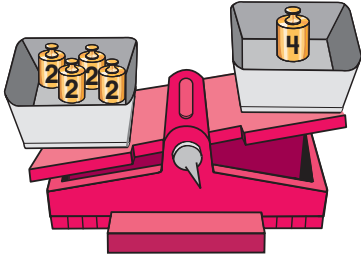


# Changing Both Pans of a Balance

NCTM Standards 1, 2, 4, 6, 7, 8, 9, 10

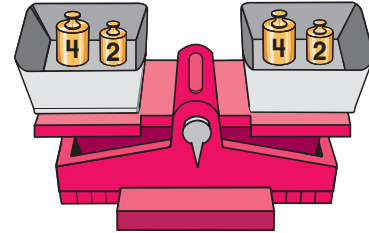
What are the missing symbols and numbers?

1.



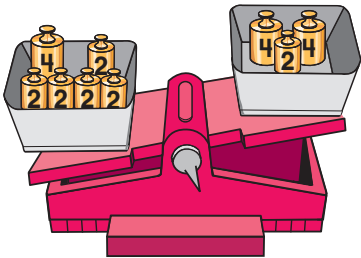
8 oz  4 oz

and



6 oz  6 oz

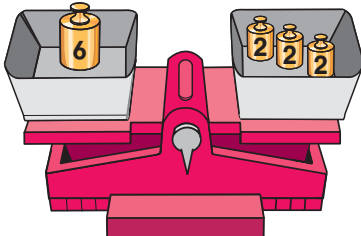
so



8 oz + 6 oz  4 oz + 6 oz

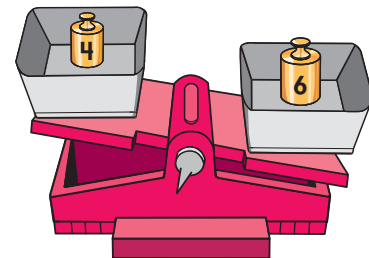
\_\_\_\_\_ oz  \_\_\_\_\_ oz

2.



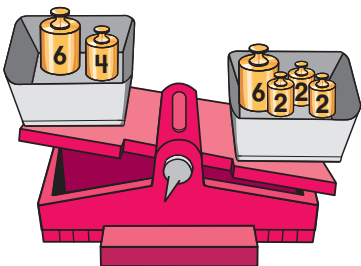
\_\_\_\_\_ oz  \_\_\_\_\_ oz

and



\_\_\_\_\_ oz  \_\_\_\_\_ oz

so



\_\_\_\_\_ oz + \_\_\_\_\_ oz  \_\_\_\_\_ oz + \_\_\_\_\_ oz

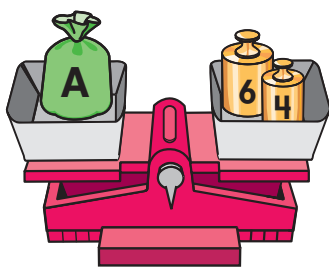
\_\_\_\_\_ oz  \_\_\_\_\_ oz



**NOTE:** Your child is exploring what happens when the same weight is added to both pans of a balance scale. Your child uses logic to determine which pan is heavier.

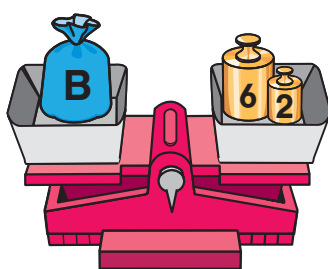
How much does each bag weigh?

3.



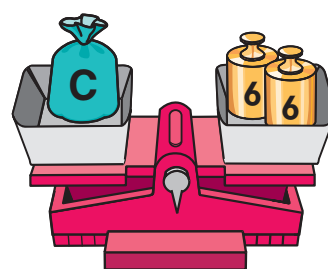
A weighs 10 oz.

4.



B weighs \_\_\_\_\_ oz.

5.



C weighs \_\_\_\_\_ oz.

Use the weights above.

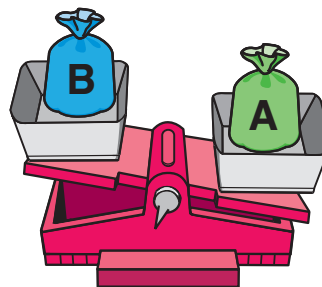
What are the missing numbers and symbols?

6.



\_\_\_\_\_ oz ○ \_\_\_\_\_ oz

7.



\_\_\_\_\_ oz ○ \_\_\_\_\_ oz

8. Circle the heaviest bag.

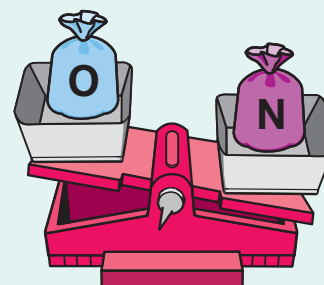
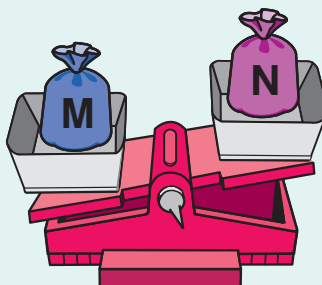


9. Circle the lightest bag.



### Challenge

Look at the balances at the right.



10. Circle the heaviest bag.



11. Circle the lightest bag.

