



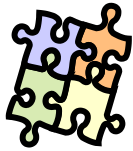
Name: _____
Grade: _____ Teacher: _____



Math Challenge #10 is about Pockets and Pennies puzzles. In each of the following puzzle, a child has pennies in one, two, three, or four pockets of his or her clothes. Your task is to guess how many pennies are in each pocket.

Hint: If you get stuck, get your pennies and act it out.

For this special challenge, **the prize is a bag full of pennies. Not exactly. It is a bag of chocolate coins.** Turn your answers in by **Thursday, March 11, no later than 3PM for the drawing.**



First & Second Grade: Solve at least 4 puzzles.

Third & Fourth Grade: Solve at least 7 puzzles.

Fifth & Sixth Grade: Solve at least 9 puzzles.



1. Two pockets have pennies. One pocket has one penny less than the other. **Answer:**
Their total number of pennies is the same value as a nickel.
How many pennies are in each pocket? _____

2. One pocket has pennies. **Answer:**
If you double the amount of pennies, they are the same value as a dime.
How many pennies are in the pocket? _____

3. Two pockets have pennies. **Answer:**
The sum of the number of pennies in the two pockets is 18.
The difference in the number of pennies in the pockets is zero.
How many pennies are in each pocket? _____

4. Four pockets have pennies. There are a different number of pennies in **Answer:**
each pocket. The sum of all the pennies is less than 11.
How many pennies are in each pocket? _____

5. Two pockets have pennies. **Answer:**
The right pocket has 2 more pennies than the left pocket. The right pocket
has two times as many pennies as the left pocket.
The number of pennies in the left pocket times itself equals the number of
pennies in the right pocket.
How many pennies are in each pocket? _____

6. Four pockets have pennies. There is the same number of pennies in each **Answer:**
pocket. The sum of the number of pennies in all four pocket is more than 16
and less than 24.
How many pennies are in each pocket? _____

7. One pocket has pennies. It has more than 5 pennies in it. **Answer:**
The number of pennies in the pocket times itself is less than 50.
There are an odd number of pennies in the pocket.
How many pennies are in the pocket? _____

8. Two pockets have pennies.
There are a different number of pennies in each pocket.
The difference in the number of pennies in the pocket is 4.
The sum of the number of pennies in the two pockets is 10.
How many pennies are in each pocket?

Answer:

9. Four pockets have pennies. Three pockets have the same number of pennies.
One pocket has 1 more penny than the others.
The sum of the number of pennies in the four pocket is 21.
How many pennies are in each pocket?

Answer:

10. This last puzzle is more than just pennies. Your pockets are tearing from the weight of all the coins in them. After you unload them onto the kitchen table, you discover something surprising. You have exactly the same number of pennies, nickels, dimes, and quarters, totaling \$6.15. How many of each coin do you have?

Answer:



Our next math challenge (MC #11) will be available online (www.mathincation.org) on March 20, 2010. It will be due on March 25, 2010.