

Challenge

Penny Drive

Grades 3, 4, and 5 at Washington School held a penny drive as a fundraiser. Each grade has 2 classes. The total number of pennies collected by each class for Day 1 and Day 2 are shown in the table.

Penny Drive						
Class	3A	3B	4A	4B	5A	5B
Day 1	95	107	125	135	132	105
Day 2	121	106	148	129	140	145

Write an equation for each situation. Then solve the equation and identify the class.

- The difference between the number of pennies collected on Day 1 by 3A and another class is 40 pennies.

- The total number of pennies collected by the class that collected 105 pennies on Day 1 and 145 pennies on Day 2.

- If you add 11 pennies to the number of pennies collected by one of the classes on Day 2, the total is 140 pennies.

- If you add a certain number of pennies to the 125 pennies collected by a class on Day 1, the sum is equal to the number of pennies collected by the same class on Day 2.

- The total number of pennies collected by all students in fourth grade.

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Write an equation for each situation. Then solve the equation and identify the class.

1. The difference between the number of pennies collected on Day 1 by 3A and another class is 40 pennies.

$$p - 95 = 40; 95 + 40 = p; p = 135; \text{Class 4B}$$

2. The total number of pennies collected by the class that collected 105 pennies on Day 1 and 145 pennies on Day 2.

$$105 + 145 = p; p = 250; \text{Class 5B}$$

3. If you add 11 pennies to the number of pennies collected by one of the classes on Day 2, the total is 140 pennies.

$$p + 11 = 140; 140 - 11 = p; p = 129; \text{Class 4B}$$

4. If you add a certain number of pennies to the 125 pennies collected by a class on Day 1, the sum is equal to the number of pennies collected by the same class on Day 2.

$$125 + p = 148; 148 - 125 = p; p = 23; \text{Class 4A}$$

5. The total number of pennies collected by all students in fourth grade.

$$125 + 148 + 135 + 129 = p; p = 537; \text{Classes 4A}$$

and 4B