Name_____
Teacher_____

DFA.G8.3M.C3.PO3 Use properties to simplify and solve equations and inequalities. **_____/5**

1. Patty's family went on vacation and rented a car. The rental agency charged $55.00 plus and additional $0.05 for each mile the car was driven. If Patty's family paid a total of$63.80 for the car rental, how many miles, *m*, did they drive the car?

A. 17.6 miles B. 176 miles

C. 1221 miles D. 1276 miles

2. Mary needed to send a package to her grandmother in Boston. FedEx charged $5.00 plus $0.50 for each pound, *p,* that the package weighed. If Mary spent $13.00 to mail the package how much did it weigh?

A. 1.6 lbs. B. 3.6 lbs. C. 16 lbs. D. 36 lbs.

3. Determine the value of x that makes the following equation true.

$$9x + 4 = 7x - 8$$

A. 6 B. -6 C. 2 D. -2

4. If $10x = 4(x + 6)$, then x =?

A. 1 B. 10/9 C. 4 D. -4

5. If $8x > 4(x - 2)$, then x = ?

A. 2 B. -2 C. 4 D. 0.5

Name_____
Teacher_____

DFA.G8.3M.C3.PO3 Use properties to simplify and solve equations and inequalities. **_____/5**

1. Patty's family went on vacation and rented a car. The rental agency charged $55.00 plus and additional $0.05 for each mile the car was driven. If Patty's family paid a total of$63.80 for the car rental, how many miles, *m*, did they drive the car?

A. 17.6 miles **B.** 176 miles

C. 1221 miles D. 1276 miles

2. Mary needed to send a package to her grandmother in Boston. FedEx charged $5.00 plus $0.50 for each pound, *p,* that the package weighed. If Mary spent $13.00 to mail the package how much did it weigh?

A. 1.6 lbs. B. 3.6 lbs. **C.** 16 lbs. D. 36 lbs.

3. Determine the value of x that makes the following equation true.

$$9x + 4 = 7x - 8$$

A. 6 **B.** -6 C. 2 D. -2

4. If $10x = 4(x + 6)$, then x =?

A. 1 B. 10/9 **C.** 4 D. -4

5. If $8x > 4(x - 2)$, then x = ?

A. 2 B. -2 C. 4 D. 0.5