

Name : \_\_\_\_\_

## Direct and Inverse Variation - Equation

Sheet 1

State whether each equation represents a direct or an inverse variation.  
Find the constant of variation (k).

1)  $4y - 3x = 0$

2)  $xy = 5$

3)  $5xy + 8 = 12$

4)  $-y + 9x = 0$

5)  $-10 + 15xy = 20$

6)  $2 + 8xy = 4$

7)  $7y - 6x = 0$

8)  $-2x + 5y = 0$

9)  $\frac{y}{x} = 6$

10)  $-4 + 9yx = 3$

Name : \_\_\_\_\_

## Answer key

# Direct and Inverse Variation - Equation

Sheet 1

State whether each equation represents a direct or an inverse variation.  
Find the constant of variation (k).

1)  $4y - 3x = 0$

**Direct variation,  $k = \frac{3}{4}$**

2)  $xy = 5$

**Inverse variation,  $k = 5$**

3)  $5xy + 8 = 12$

**Inverse variation,  $k = \frac{4}{5}$**

4)  $-y + 9x = 0$

**Direct variation,  $k = 9$**

5)  $-10 + 15xy = 20$

**Inverse variation,  $k = 2$**

6)  $2 + 8xy = 4$

**Inverse variation,  $k = \frac{1}{4}$**

7)  $7y - 6x = 0$

**Direct variation,  $k = \frac{6}{7}$**

8)  $-2x + 5y = 0$

**Direct variation,  $k = \frac{2}{5}$**

9)  $\frac{y}{x} = 6$

**Direct variation,  $k = 6$**

10)  $-4 + 9yx = 3$

**Inverse variation,  $k = \frac{7}{9}$**