

Dilated coordinates of the image are given. Find the original coordinates with the given center and scale factor(k).

1)  $F'(-17, -3), G'(-8, 6), H'(1, 15)$

center :  $(-8, 6), k = 9$

F : \_\_\_\_\_, G : \_\_\_\_\_

H : \_\_\_\_\_

2)  $S'(6, 10), T'(14, 6), U'(12, -8), V'(-8, 4)$

center :  $(2, 0), k = 2$

S : \_\_\_\_\_, T : \_\_\_\_\_

U : \_\_\_\_\_, V : \_\_\_\_\_

3)  $W'(-23, 25), X'(-7, -23), Y'(1, -13)$

center :  $(9, -7), k = 3.2$

W : \_\_\_\_\_, X : \_\_\_\_\_

Y : \_\_\_\_\_

5)  $J'(-3, -5), K'(0, -7), L'(1, -13)$

center :  $(4, 1), k = 0.25$

J : \_\_\_\_\_, K : \_\_\_\_\_

L : \_\_\_\_\_

7)  $A'(1, 11), B'(1, 9), C'(-4, 10), D'(-4, -8)$

center :  $(-9, -8), k = 0.5$

A : \_\_\_\_\_, B : \_\_\_\_\_

C : \_\_\_\_\_, D : \_\_\_\_\_

4)  $R'(1, -9), S'(-3, -5), T'(1, -13), U'(-3, -16)$

center :  $(-1, -7), k = \frac{1}{2}$

R : \_\_\_\_\_, S : \_\_\_\_\_

T : \_\_\_\_\_, U : \_\_\_\_\_

6)  $L'(3, -2), M'(-1, -6), N'(7, 2), O'(3, -6)$

center :  $(3, -6), k = 3$

L : \_\_\_\_\_, M : \_\_\_\_\_

N : \_\_\_\_\_, O : \_\_\_\_\_

8)  $L'(3, -2), M'(-1, -6), N'(7, 2)$

center :  $(3, -6), k = \frac{4}{3}$

L : \_\_\_\_\_, M : \_\_\_\_\_

N : \_\_\_\_\_

# PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

## Original Coordinates

Dilated coordinates of the image are given. Find the original coordinates with the given center and scale factor(k).

1)  $F'(-17, -3), G'(-8, 6), H'(1, 15)$

center :  $(-8, 6), k = 9$

F :           (-9, 5)           , G :           (-8, 6)          

H :           (-7, 7)          

2)  $S'(6, 10), T'(14, 6), U'(12, -8), V'(-8, 4)$

center :  $(2, 0), k = 2$

S :           (4, 5)           , T :           (8, 3)          

U :           (7, -4)           , V :           (-3, 2)          

3)  $W'(-23, 25), X'(-7, -23), Y'(9, -1)$

center :  $(9, -7), k = 3.2$

W :           (-1, 3)           ,

Y :           (9, -7)           ,

5)  $J'(-3, -5), K'(0, -7), L'(1, -13)$

center :  $(4, 1), k = 0.25$

J :           (-24, -23)           ,

L :           (-8, -7)           ,

$R'(1, -9), S'(-3, -5)$

$\frac{1}{2}$

Q :           (20, -15)           ,

S :           (0, -15)           ,

$T'(-13), F'(-4, -16), G'(-19, -16)$

$k = 3$

E :           (-7, -7)           ,

G :           (-11, -8)           ,

7)  $A'(1, 11), B'(1, 9), C'(-4, 10), D'(-4, -8)$

center :  $(-9, -8), k = 0.5$

A :           (11, 30)           , B :           (11, 26)          

C :           (1, 28)           , D :           (1, -8)          

8)  $L'(3, -2), M'(-1, -6), N'(7, 2)$

center :  $(3, -6), k = \frac{4}{3}$

L :           (3, -3)           , M :           (0, -6)          

N :           (6, 0)          

# PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)