



Name: _____



Find the midpoint of the line with the following endpoints:

a) (4,7) and (6,9)

(5, 8)

h) (-2,2) and (2,20)

(0, 11)

b) (1,7) and (3,9)

(2, 8)

i) (4,-5) and (-2,5)

(1, 0)

c) (2,1) and (6,7)

(4, 4)

j) (8,-3) and (-4,19)

(-2, 8)

d) (2,0) and (4,4)

(3, 2)

k) (-8,-2) and (6,20)

(-1, 18)

e) (5,3) and (9,13)

(7, 8)

l) (-2,6) and (-8,-4)

(-5, 1)

f) (0,2) and (4,8)

(2, 5)

m) (-3,-2) and (-5,8)

(-4, 3)

g) (0,1) and (6,11)

(3, 6)

n) (5,4) and (-3,-8)

(1, -2)

Find the midpoint between the given 3D points

a) (0,1,6) and (2,7,10)

(1, 4, 8)

d) (-3,0,8) and (3,2,-2)

(0, 1, 3)

b) (2,5,11) and (2,7,5)

(2, 6, 8)

f) (-4,-7,-3) and (-8,1,-11)

(-6, -3, -7)

c) (-5,-2,4) and (-1,2,8)

(-3, 0, 6)

f) (-4,15,-6) and (6,-7,10)

(1, 4, 2)

Exam question:

The line AB passes through the points A = (2k, -1) and B = (6, k).

The midpoint of AB is (8, 3)

Work out the value of k.

$$\frac{2k + 6}{2} = 8 \quad 2k + 6 = 16 \quad 2k = 10 \quad k = 5$$

