Dilations

Solve for x. Show your work.

1. Dilate $(8, 5)$ by scale factor $\dfrac{1}{2}$ from origin.

2. Dilate $(8, 5)$ by scale factor $\dfrac{1}{2}$ from origin.

3. Dilate $(8, 12)$ by scale factor $\dfrac{1}{4}$ from origin.

4. Dilate $(10, 5)$ by scale factor $\dfrac{1}{4}$ from origin.

5. Dilate $(4, 10)$ by scale factor $\dfrac{1}{2}$ from origin.

6. Dilate $(9, 11)$ by scale factor $\dfrac{1}{4}$ from origin.

7. Dilate $(7, 11)$ by scale factor $\dfrac{1}{2}$ from origin.

8. Dilate $(11, 4)$ by scale factor $\dfrac{1}{2}$ from origin.

Dilations - Answer Key

1. Dilate $(8, 5)$ by scale factor $\dfrac{1}{2}$ from origin.
   (4, 2)

2. Dilate $(8, 5)$ by scale factor $\dfrac{1}{2}$ from origin.
   (4, 2)

3. Dilate $(8, 12)$ by scale factor $\dfrac{1}{4}$ from origin.
   (2, 3)

4. Dilate $(10, 5)$ by scale factor $\dfrac{1}{4}$ from origin.
   (2, 1)

5. Dilate $(4, 10)$ by scale factor $\dfrac{1}{2}$ from origin.
   (2, 5)

6. Dilate $(9, 11)$ by scale factor $\dfrac{1}{4}$ from origin.
   (2, 2)

7. Dilate $(7, 11)$ by scale factor $\dfrac{1}{2}$ from origin.
   (3, 5)

8. Dilate $(11, 4)$ by scale factor $\dfrac{1}{2}$ from origin.
   (5, 2)