Name : _____

Center of Dilation

Sheet 1

Find the center of dilation.

1) Q(10, –3), R(2, –7), S(6, 1) are dilated to Q′(1, 3), R′(–1, 2), S′(0, 4), k = $\frac{1}{4}$

Center = _____

2) A(–3, 5), B(1, 4), C(0, –1), D(–2, –2) are dilated to A′(–31, 12), B′(1, 4), C′(–7, –36), D′(–23, –44), k = 8

Center = _____

3) E(3, –6), F(9, –6), G(

Center = _____

4) S(1, 1), T(–5, 3), U(–

, –2), V′(–5, –4), k = 0.5

Center = _____

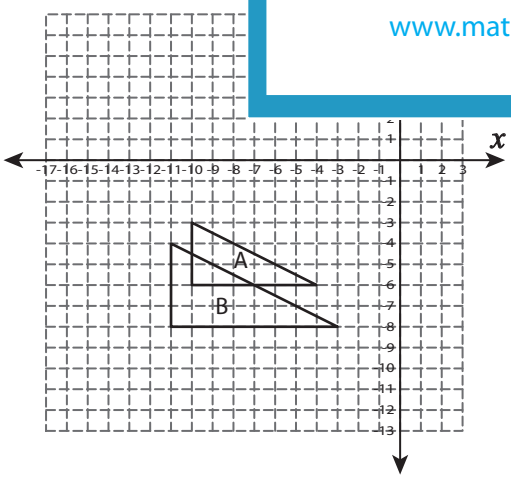
5) K(9, 6), L(12, 5), M(7

)), N′(1, 15), k = 3

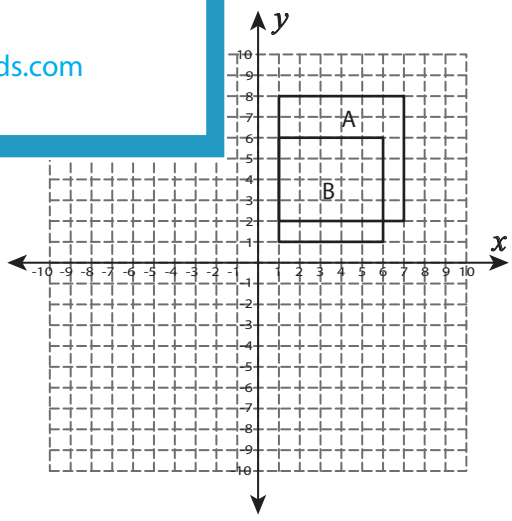
Center = _____

Figure A is a dilated ima

1) k = $\frac{3}{4}$



Center = _____



Center = _____

Name : _____

Answer key

Center of Dilation

Sheet 1

Find the center of dilation.

1) Q(10, –3), R(2, –7), S(6, 1) are dilated to Q′(1, 3), R′(–1, 2), S′(0, 4), $k = \frac{1}{4}$

Center = **(–2, 5)**

2) A(–3, 5), B(1, 4), C(0, –1), D(–2, –2) are dilated to A′(–31, 12), B′(1, 4), C′(–7, –36), D′(–23, –44), k = 8

Center = **(1, 4)**

3) E(3, –6), F(9, –6), G(

Center = _____

4) S(1, 1), T(–5, 3), U(–

, –2), V′(–5, –4), k = 0.5

Center = _____

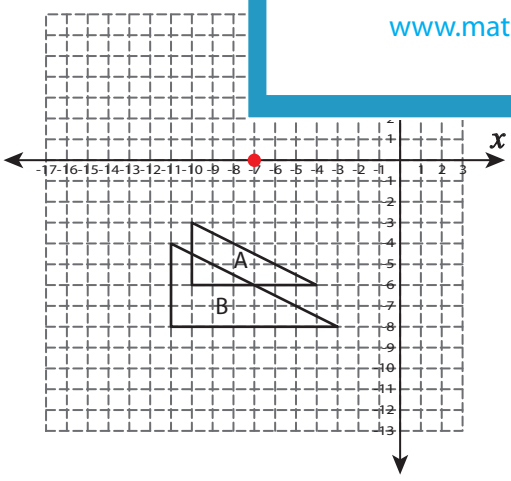
5) K(9, 6), L(12, 5), M(7

)), N′(1, 15), k = 3

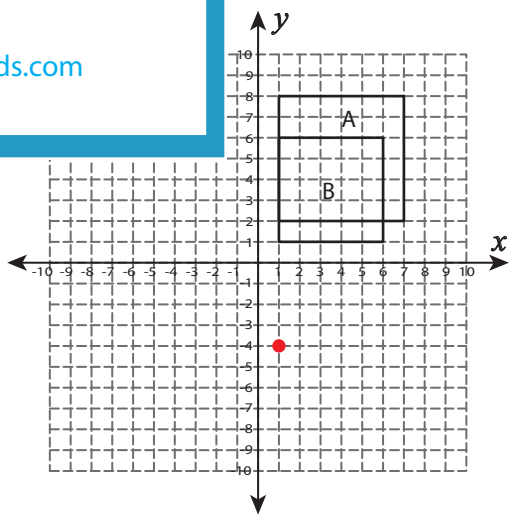
Center = _____

Figure A is a dilated ima

1) $k = \frac{3}{4}$



Center = **(–7, 0)**



Center = **(1, –4)**