Name: Class: Date:

1) Shear the triangle $A B C$ from fixed line $x$-axis, by shear factor 1 .

Give the coordinates of the image point $\mathrm{A}^{\prime}$

2) Shear the triangle $A B C$ from fixed line $y$-axis, by shear factor 2 .

Give the coordinates of the image point B'

3) Fully describe the single transformation from the triangle $A B C$ to its image

4) Fully describe the single transformation from the triangle $A B C$ to its image

5) Shear the shape by scale factor 2 from the dotted line

6) Shear the shape by shear factor 2 using the $y$-axis as the fixed line

7) Shear the shape by shear factor 1.5 using the $x$-axis as the fixed line

8) Shear the shape by shear factor 0.5 using the $x$-axis as the fixed line


## Solutions for the assessment Transformations - Shear

1) 

Shearing the triangle ABC from fixed line x -axis, by shear factor 1 gives image point $\mathrm{A}^{\prime}=(1,1)$


## 2)

Shearing the triangle $A B C$ from fixed line $y$-axis, by shear factor 2 gives image point $B^{\prime}=(4,9)$

3) shear from fixed line $x$-axis by shear factor 1

4) shear from fixed line $y$-axis by shear factor 1

5)

6)

7)



