WORKSHEET

Name: ..... Class: .....

Date: .....

MARK ____ / 20

Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

1 Reflect $(3\ ;\ 5)$ in the x-axis. (1)

2 Reflect $(-2\ ;\ 7)$ in the y-axis. (1)

3 Reflect $(4\ ;\ 1)$ in the line $y = x$. (1)

4 Rotate $(3\ ;\ -6)$ by $180°$ about the origin. (1)

5 Rotate $(4\ ;\ 1)$ by $90°$ CLOCKWISE about the origin. (2)

6 Rotate $(-2\ ;\ 5)$ by $90°$ ANTICLOCKWISE about the origin. **(2)**

7 Rotate $(3\ ;\ -1)$ by $270°$ clockwise about the origin. **(2)**

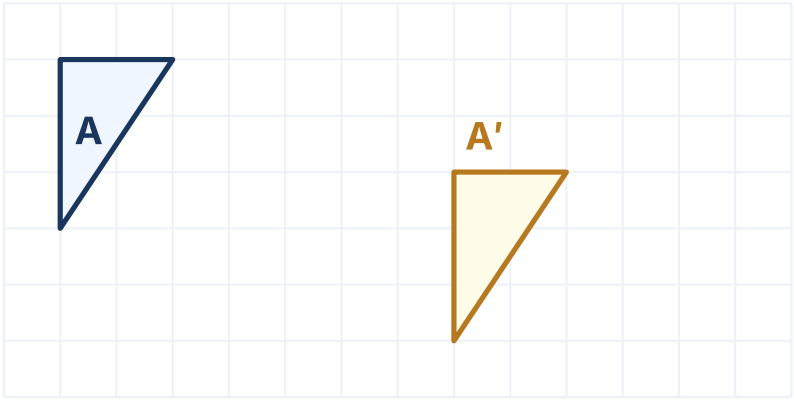
8 Translate $(5\ ;\ 3)$ by 2 left and 4 up. **(2)**

9 A point is reflected in the x-axis; its image is $(6\ ;\ -2)$. Find the original. **(2)**

10 Enlarge $(3\ ;\ -4)$ by scale factor 3 from the origin. **(1)**

11 A rectangle 4 cm $\times$ 3 cm is enlarged by factor 3. Find the new area. **(3)**

12 Which transformations leave the figure congruent? **(2)**



translation: 7 right and 2 down

TOTAL: 20 marks

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