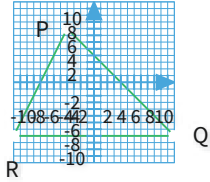


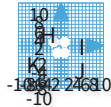
#1 Write the coordinates of the vertices after a dilation with a scale factor of $\frac{1}{4}$, centered at the origin.



- | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|
| <input type="radio"/> $P' (-1, 2)$ | <input type="radio"/> $P' (-1, 3)$ | <input type="radio"/> $P' (-1, 2)$ |
| <input type="radio"/> $Q' (3, -2)$ | <input type="radio"/> $Q' (2, -2)$ | <input type="radio"/> $Q' (3, -2)$ |
| <input type="radio"/> $R' (-3, -1)$ | <input type="radio"/> $R' (-2, -1)$ | <input type="radio"/> $R' (-3, -2)$ |

Show your work

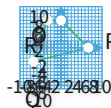
#2 Write the coordinates of the vertices after a dilation with a scale factor of 5, centered at the origin.



- | | | |
|-------------------------------------|--------------------------------------|--------------------------------------|
| <input type="radio"/> $H' (5, 5)$ | <input type="radio"/> $H' (5, 5)$ | <input type="radio"/> $H' (5, 5)$ |
| <input type="radio"/> $I' (5, -10)$ | <input type="radio"/> $I' (5, -10)$ | <input type="radio"/> $I' (3, -10)$ |
| <input type="radio"/> $J' (-5, -9)$ | <input type="radio"/> $J' (-5, -10)$ | <input type="radio"/> $J' (-5, -10)$ |
| <input type="radio"/> $K' (-6, 5)$ | <input type="radio"/> $K' (-10, 5)$ | <input type="radio"/> $K' (-10, 6)$ |

Show your work

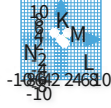
#3 Write the coordinates of the vertices after a dilation with a scale factor of $\frac{1}{4}$, centered at the origin.



- | | | |
|------------------------------------|-------------------------------------|-------------------------------------|
| <input type="radio"/> $O' (0, 2)$ | <input type="radio"/> $O' (0, 2)$ | <input type="radio"/> $O' (0, 2)$ |
| <input type="radio"/> $P' (2, 0)$ | <input type="radio"/> $P' (1, 0)$ | <input type="radio"/> $P' (2, 0)$ |
| <input type="radio"/> $Q' (-2, 0)$ | <input type="radio"/> $Q' (-2, -1)$ | <input type="radio"/> $Q' (-2, -1)$ |
| <input type="radio"/> $R' (-3, 2)$ | <input type="radio"/> $R' (-1, 1)$ | <input type="radio"/> $R' (-1, 2)$ |

Show your work

#4 Write the coordinates of the vertices after a dilation with a scale factor of 4, centered at the origin.



- | | | | | | |
|-----------------------|--------------|-----------------------|--------------|-----------------------|--------------|
| <input type="radio"/> | $K' (8, 8)$ | <input type="radio"/> | $K' (8, 8)$ | <input type="radio"/> | $K' (8, 8)$ |
| <input type="radio"/> | $L' (2, -4)$ | <input type="radio"/> | $L' (4, -4)$ | <input type="radio"/> | $L' (4, -4)$ |
| <input type="radio"/> | $M' (0, 0)$ | <input type="radio"/> | $M' (0, 0)$ | <input type="radio"/> | $M' (0, 1)$ |
| <input type="radio"/> | $N' (-8, 7)$ | <input type="radio"/> | $N' (-8, 8)$ | <input type="radio"/> | $N' (1, 8)$ |

Show your work

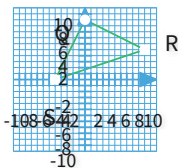
#5 Write the coordinates of the vertices after a dilation with a scale factor of 4, centered at the origin.



- | | | | | | |
|-----------------------|---------------|-----------------------|---------------|-----------------------|---------------|
| <input type="radio"/> | $L' (8, 8)$ | <input type="radio"/> | $L' (8, 8)$ | <input type="radio"/> | $L' (8, 8)$ |
| <input type="radio"/> | $M' (4, 0)$ | <input type="radio"/> | $M' (3, 0)$ | <input type="radio"/> | $M' (4, 0)$ |
| <input type="radio"/> | $N' (-8, -3)$ | <input type="radio"/> | $N' (-8, -4)$ | <input type="radio"/> | $N' (-8, -4)$ |
| <input type="radio"/> | $O' (-9, 8)$ | <input type="radio"/> | $O' (-4, 6)$ | <input type="radio"/> | $O' (-4, 8)$ |

Show your work

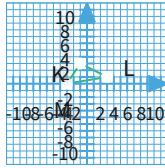
#6 Write the coordinates of the vertices after a dilation with a scale factor of $\frac{1}{5}$, centered at the origin.



- | | | | | | |
|-----------------------|-------------|-----------------------|--------------|-----------------------|--------------|
| <input type="radio"/> | $Q' (0, 3)$ | <input type="radio"/> | $Q' (0, 2)$ | <input type="radio"/> | $Q' (0, 2)$ |
| <input type="radio"/> | $R' (3, 1)$ | <input type="radio"/> | $R' (2, 1)$ | <input type="radio"/> | $R' (2, 1)$ |
| <input type="radio"/> | $S' (0, 1)$ | <input type="radio"/> | $S' (-1, 1)$ | <input type="radio"/> | $S' (-1, 0)$ |

Show your work

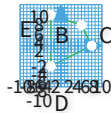
#7 Write the coordinates of the vertices after a dilation with a scale factor of 3, centered at the origin.



- | | | | | | |
|-----------------------|--------------|-----------------------|--------------|-----------------------|--------------|
| <input type="radio"/> | $K' (-3, 9)$ | <input type="radio"/> | $K' (-3, 9)$ | <input type="radio"/> | $K' (-3, 9)$ |
| | $L' (9, 3)$ | | $L' (6, 3)$ | | $L' (9, 2)$ |
| <input type="radio"/> | $M' (-9, 0)$ | <input type="radio"/> | $M' (-9, 1)$ | <input type="radio"/> | $M' (-9, 0)$ |

Show your work

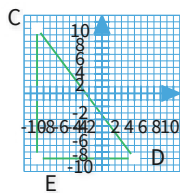
#8 Write the coordinates of the vertices after a dilation with a scale factor of $\frac{1}{3}$, centered at the origin.



- | | | | | | |
|-----------------------|---------------|-----------------------|---------------|-----------------------|---------------|
| <input type="radio"/> | $B' (2, 2)$ | <input type="radio"/> | $B' (2, 2)$ | <input type="radio"/> | $B' (2, 2)$ |
| | $C' (2, 0)$ | | $C' (3, 0)$ | | $C' (3, 0)$ |
| <input type="radio"/> | $D' (-1, -2)$ | <input type="radio"/> | $D' (-1, -2)$ | <input type="radio"/> | $D' (-1, -1)$ |
| <input type="radio"/> | $E' (-1, 4)$ | <input type="radio"/> | $E' (-1, 3)$ | <input type="radio"/> | $E' (-2, 3)$ |

Show your work

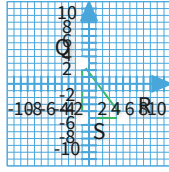
#9 Write the coordinates of the vertices after a dilation with a scale factor of $\frac{1}{5}$, centered at the origin.



- | | | | | | |
|-----------------------|---------------|-----------------------|---------------|-----------------------|---------------|
| <input type="radio"/> | $C' (-2, 1)$ | <input type="radio"/> | $C' (-2, 2)$ | <input type="radio"/> | $C' (-2, 2)$ |
| | $D' (0, -2)$ | | $D' (1, -2)$ | | $D' (1, -2)$ |
| <input type="radio"/> | $E' (-1, -1)$ | <input type="radio"/> | $E' (-2, -2)$ | <input type="radio"/> | $E' (-2, -1)$ |

Show your work

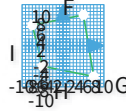
#10 Write the coordinates of the vertices after a dilation with a scale factor of 2, centered at the origin.



- | | | | | | |
|-----------------------|---------------|-----------------------|----------------|-----------------------|----------------|
| <input type="radio"/> | $Q' (-2, 6)$ | <input type="radio"/> | $Q' (-2, 6)$ | <input type="radio"/> | $Q' (-2, 6)$ |
| <input type="radio"/> | $R' (8, -10)$ | <input type="radio"/> | $R' (10, -9)$ | <input type="radio"/> | $R' (10, -10)$ |
| <input type="radio"/> | $S' (-2, -9)$ | <input type="radio"/> | $S' (-2, -10)$ | <input type="radio"/> | $S' (-2, -10)$ |

Show your work

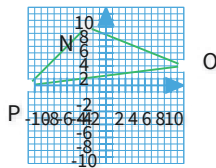
#11 Write the coordinates of the vertices after a dilation with a scale factor of $\frac{1}{3}$, centered at the origin.



- | | | | | | |
|-----------------------|---------------|-----------------------|---------------|-----------------------|---------------|
| <input type="radio"/> | $F' (2, 3)$ | <input type="radio"/> | $F' (2, 3)$ | <input type="radio"/> | $F' (2, 3)$ |
| <input type="radio"/> | $G' (3, -3)$ | <input type="radio"/> | $G' (3, -3)$ | <input type="radio"/> | $G' (2, -3)$ |
| <input type="radio"/> | $H' (-2, -1)$ | <input type="radio"/> | $H' (-2, -2)$ | <input type="radio"/> | $H' (-2, -2)$ |
| <input type="radio"/> | $I' (-3, 2)$ | <input type="radio"/> | $I' (-3, 2)$ | <input type="radio"/> | $I' (-3, 3)$ |

Show your work

#12 Write the coordinates of the vertices after a dilation with a scale factor of $\frac{1}{3}$, centered at the origin.



- | | | | | | |
|-----------------------|--------------|-----------------------|--------------|-----------------------|--------------|
| <input type="radio"/> | $N' (-1, 3)$ | <input type="radio"/> | $N' (-1, 4)$ | <input type="radio"/> | $N' (-1, 3)$ |
| <input type="radio"/> | $O' (4, 1)$ | <input type="radio"/> | $O' (2, 1)$ | <input type="radio"/> | $O' (4, 1)$ |
| <input type="radio"/> | $P' (-4, 0)$ | <input type="radio"/> | $P' (-3, 1)$ | <input type="radio"/> | $P' (-4, 1)$ |

Show your work

Question	Answer
#1	choice 3
#2	choice 2
#3	choice 3
#4	choice 2
#5	choice 3
#6	choice 3
#7	choice 1
#8	choice 2
#9	choice 2
#10	choice 3
#11	choice 2
#12	choice 1