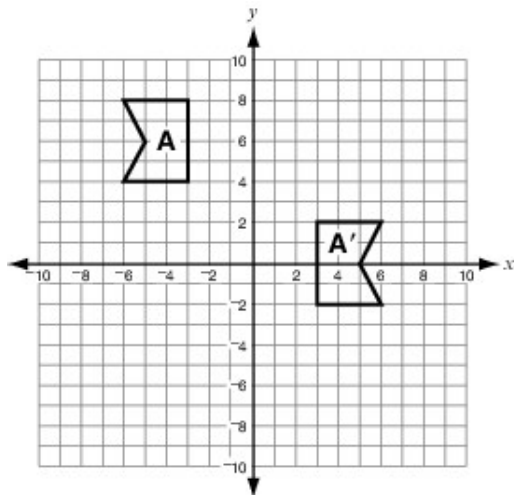TEST NAME: **Translations & Reflections HW**
TEST ID: **552753**
GRADE: **08**
SUBJECT: **Mathematics**
TEST CATEGORY: **Shared Classroom Assessments**

1. Which set of transformations could be applied to figure A to prove that it is congruent to figure A'?

A. reflection across the y-axis and translation down 2 units

B. reflection across the y-axis and translation down 6 units

C. rotation of 180° about the origin, followed by a reflection across the x-axis

D. rotation of 90° clockwise about the origin, followed by a reflection across the x-axis
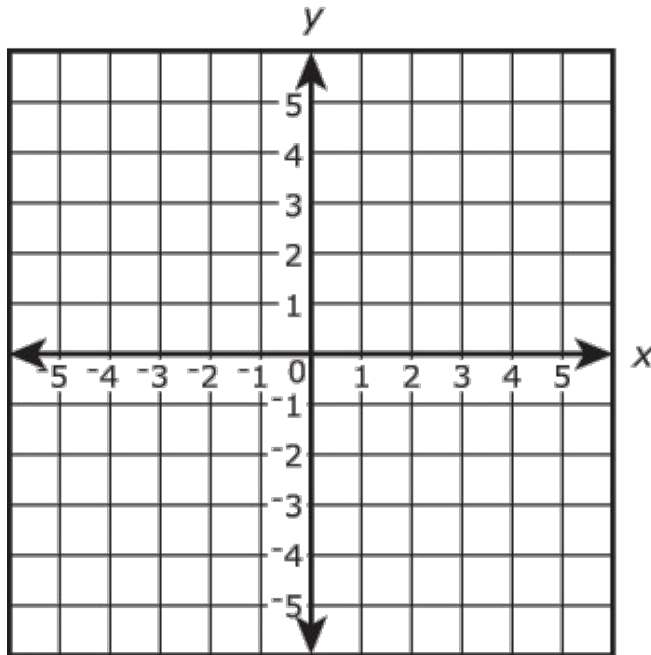
2. The parallelogram shown below is translated 8 units to the left and then reflected across the *x*-axis.
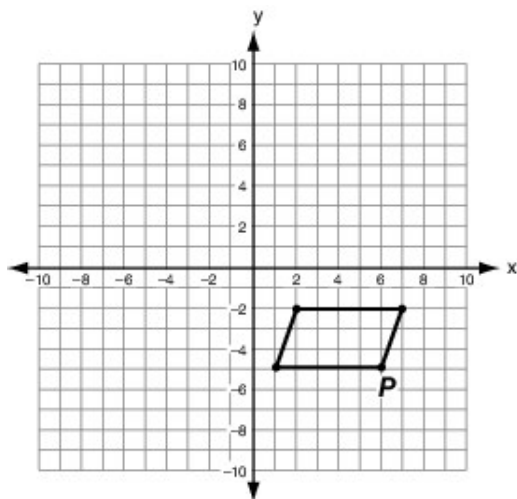
What are the coordinates of point p in the transformed parallelogram?

A. $(-6, 5)$

B. $(-2, -5)$

C. $(-2, 5)$

D. $(6, 5)$

3. The pre-image coordinates of a triangle are $X(2, 2)$, $Y(3, 2)$, $Z(5, 4)$. The image coordinates are $X'(-2, 2)$, $Y'(-3, 2)$, $Z'(-5, 4)$. What transformation occurred?

A. slide of 4 units up

B. slide of 4 units down

C. reflection over the *x*-axis

D. reflection over the *y*-axis

4. Rectangle *EFGH* has vertices at $E(^-5, 2)$, $F(^-2, 2)$, $G(^-5, 0)$, and $H(^-2, 0)$. Rectangle *EFGH* will be translated 3 units down. What will be the coordinates of *G'*?

A. $(^-5, 3)$

B. $(^-5, ^-3)$

C. $(^-8, 0)$

5. Point *W* is located at $(7, 3)$ on a coordinate plane. Point *W* is translated 2 units to the left and 3 units up. What are the coordinates of the image point *W'*?

A. $(10, 1)$

B. $(9, 0)$

C. $(5, 6)$

D. $(4, 1)$
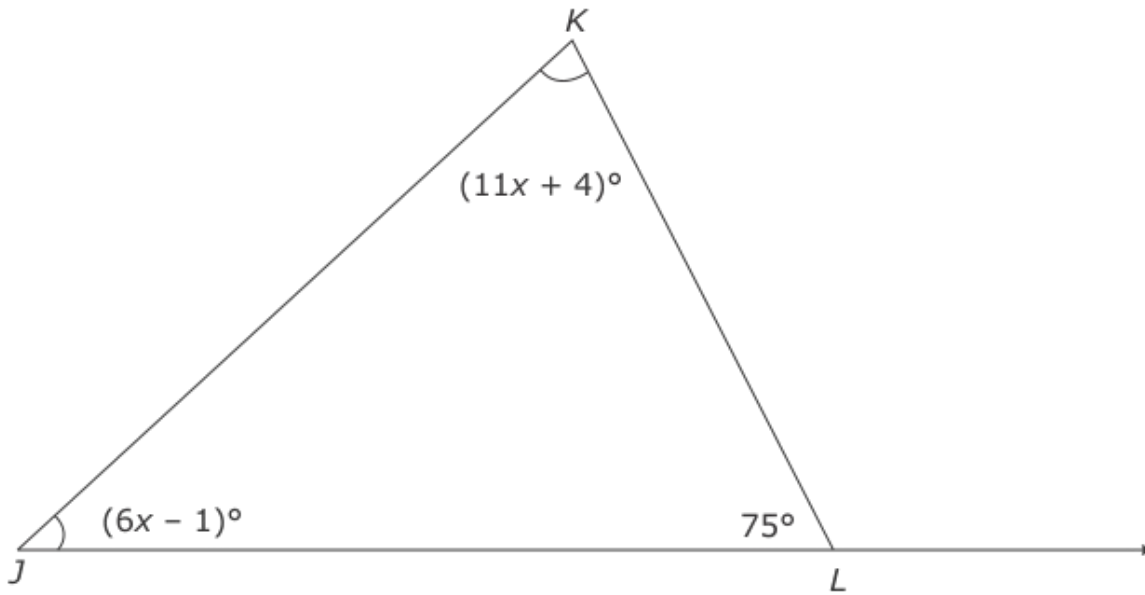
6. Triangle *RST* will be reflected across the *x*-axis.
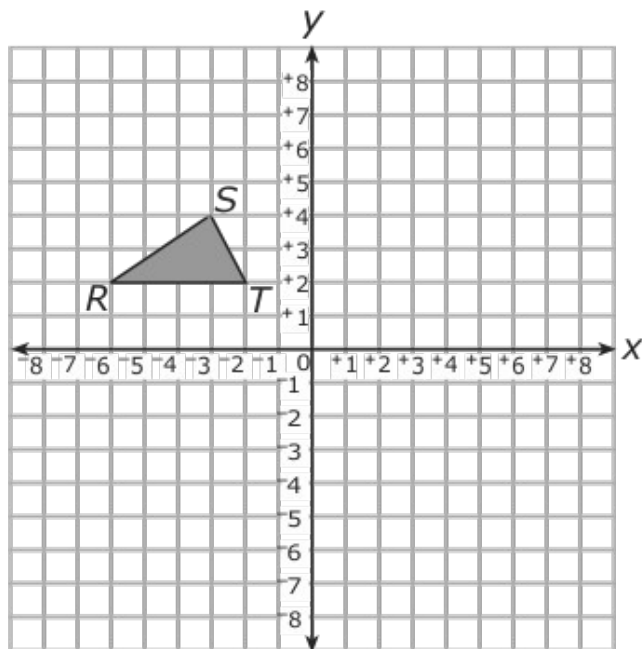
What will be the coordinates of the resulting triangle *R'S'T'*?

A   *R'*(6, 2), *S'*(3, 4), *T'*(2, 2)

B.   *R'*(2, 6), *S'*(4, 3), *T'*(2, 2)

C.   *R'*(⁻2, 6), *S'*(⁻4, 3), *T'*(⁻2, 2)

D.   *R'*(⁻6, ⁻2), *S'*(⁻3, ⁻4), *T'*(⁻2, ⁻2)

Triangle *JKL* is shown below.

K

$(11x + 4)°$

$(6x − 1)°$ 75°

J

L

What is the measure of angle *KJL*?
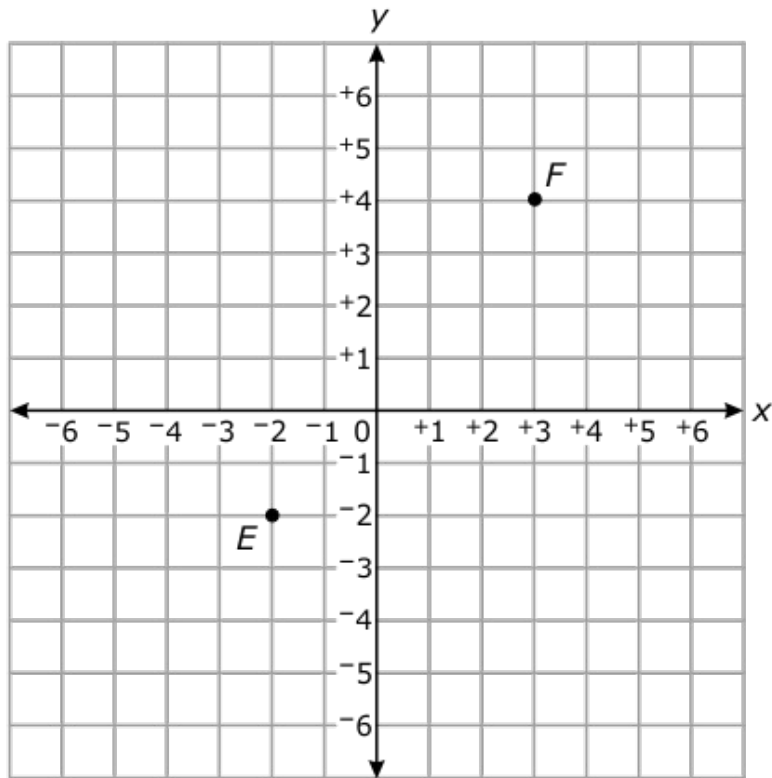
A   15°

B.   20°

C.   35°

D.   60°

8. Triangle *PQR* is shown below.
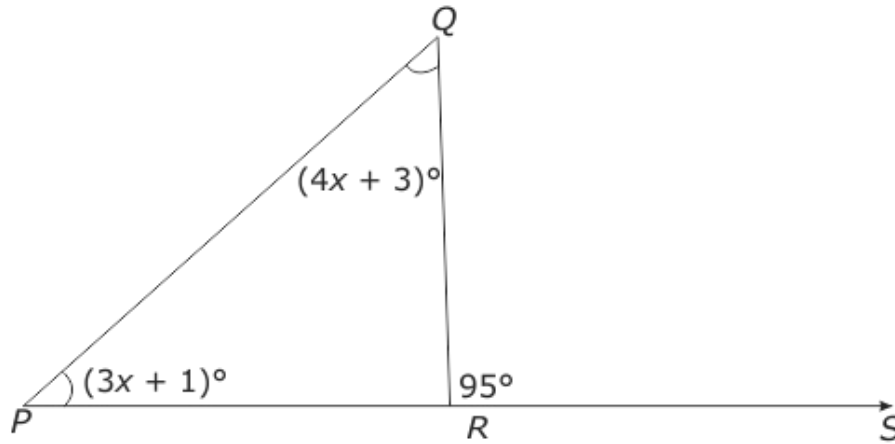
What is the value of *x*?

A. 12

B. 13

C. 25

D. 40

9. What is the **approximate** distance between points *E* and *F* on the graph below?

A. 6 units

B. 8 units

C. 11 units

10. Which fraction is equivalent to $0.\overline{15}$?

A. $\dfrac{5}{33}$

B. $\dfrac{3}{20}$

C. $\dfrac{1}{6}$