12. Answers may vary. Sample: Reflect across the line $y = 1$, and then translate the image left 6 units. $(T_{\langle -6,0 \rangle} \circ R_{y=1})(\triangle JKL) = \triangle J'K'L'$

13. $A'(-6, -6)$, $B'(-3, 6)$, $C'(7, 7)$

14. $A'(10, 4)$, $B'(7, -8)$, $C'(-3, -9)$

15. $A'(-12, 4)$, $B'(-9, 16)$, $C'(1, 17)$

16. $A'(1, 22)$, $B'(-2, 10)$, $C'(-12, 9)$

17. $A'(13, 0)$, $B'(10, -12)$, $C'(0, -13)$

18. Answers may vary. Sample: $(T_{<0,3>} \circ R_r)(\triangle DEF) = \triangle D'E'F'$ where r is the line $x = 1$.

19. Answers may vary. Sample: $(T_{<0,2>} \circ R_t)(\triangle DEF) = \triangle D'E'F'$ where t is the line $y = 8$.

20. Answers may vary. Sample: $(T_{<-6,0>} \circ R_t)(\triangle DEF) = \triangle D'E'F'$ where t is the line $y = -2$.

21. $(T_{<-6,0>} \circ R_{x-axis})(\triangle DEF) = \triangle D'E'F'$

23. $(T_{\langle 5,0 \rangle} \circ R_t)(\text{▱}ABCD) = \text{▱}A'B'C'D'$, where t is the line $y = 7$.

25. **I.** (C)

II. (B)

III. (A)

IV. (D)