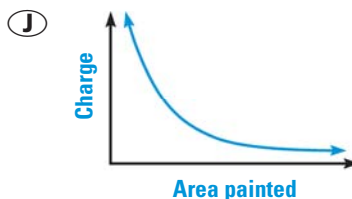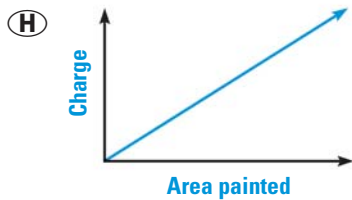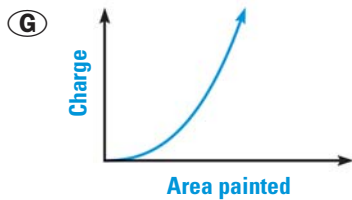## MIXED TAKS PRACTICE

6. A house painter charges a fixed rate for each square meter painted. Which graph best represents the relationship between the amount the painter charges and the area painted? *TAKS Obj. 2*

(F)

(G)

(H)

(J)

7. $\triangle XYZ$ has coordinates $X(-1, 3)$, $Y(2, -3)$, and $Z(-1, -1)$. $\triangle XYZ$ is dilated by a scale factor of 1.5, with the origin as the center of dilation. What are the coordinates of $\triangle X'Y'Z'$? *TAKS Obj. 6*

(A) $X'(-1.5, -4.5)$, $Y'(3, -4.5)$, $Z'(-1.5, 1.5)$

(B) $X'(-1, -3)$, $Y'(2, -3)$, $Z'(-1, 1)$

(C) $X'(-0.5, -1.5)$, $Y'(1, -1.5)$, $Z'(-0.5, 0.5)$

(D) $X'(1, -3)$, $Y'(-2, -3)$, $Z'(1, 1)$

8. An investor bought x dollars of stock A and y dollars of stock B. The investor spent a total of $100. Over the next month, the value of stock A increased by 5%, and the value of stock B decreased by 10%. At the end of the month, the combined value of the investor's stock was $105. Which system of equations can be used to determine x and y? *TAKS Obj. 4*

(F) $x + y = 100$, $0.05x + 0.1y = 105$

(G) $x + y = 100$, $1.05x - 0.9y = 105$

(H) $x + y = 100$, $1.05x + 0.9y = 105$

(J) $x + y = 100$, $1.05x - 1.1y = 105$

9. The table shows a pattern of figures and the number of squares that comprise each one.

Figure	Number of squares
	1
	3
	6
	10

Based on the table, how many squares will be in the seventh and eighth figures? *TAKS Obj. 10*

(A) 15, 21

(B) 17, 25

(C) 21, 36

(D) 28, 36

10. GRIDDED ANSWER A mechanic charged a customer $52 for a new part, plus $65 per hour for labor. The bill was $247. For how many hours did the mechanic work? *TAKS Obj. 4*

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.