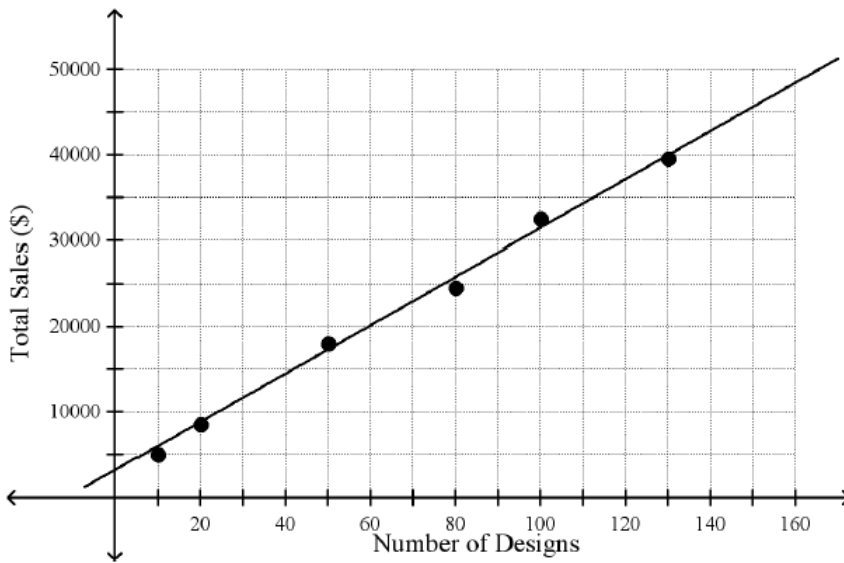41. The scatter plot shows the relationship between the weekly total sales ($) and the number of different rug designs a rug store has. Based on this relationship, use the line of best fit to predict what the total sales will be when the store has 110 different rug designs.

a. $31,000

c. $38,000

b. $0

d. $35,000

42. Factor $x^2 - 16$.

a. $(x - 4)^2$

c. $(x + 4)^2$

b. $(x + 4)(x - 4)$

d. cannot be factored

43. Factor $x^2 - 6x - 16$.

a. $(x + 2)(x - 8)$

c. $(x - 4)(x - 2)$

b. $(x - 8)(x - 2)$

d. cannot be factored

44. Solve $A = \dfrac{1}{2}(b + c)h$ for c.

a. $c = \dfrac{h}{2A} - b$

c. $c = \dfrac{2A}{h} - b$

b. $c = 2Ah - b$

d. $c = 2h(A - b)$

Answers

41. ANS: D
42. ANS: B
43. ANS: A
44. ANS: C