SAT Math – Linear & Systems Practice (Easy → Medium → Hard)

Name: _____   Date: _____

Easy Questions

1) Solve for x: $2x + 5 = 15$

2) Solve for x: $5x - 3 = 2x + 9$

3) A taxi charges a $4 flat fee plus $2 per mile. Write a function C(m) that represents the total cost C in dollars

Medium Questions

4) Solve for x: $3(x - 2) = 2(x + 4)$

5) A gym charges a one-time signup fee of $30 and $25 per month. If Noah has paid a total of $155, how man

6) The sum of two consecutive integers is 73. What is the larger integer?

7) The function $f(x) = 7x + 4$ models the cost (in dollars) of buying x notebooks. What does the 4 represent in

Hard Questions

8) Solve the system of equations:
$3x + 2y = 16$
$x - y = 1$

9) A phone plan charges $20 per month plus $0.05 per text message. Another plan charges $10 per month pl
For how many text messages t will the two plans cost the same?

10) A line passes through (–2, 5) and (4, –1). Write the equation of the line in slope-intercept form.

Answer Key – SAT Math Linear & Systems Practice

1) x = 5
2) x = 4
3) C(m) = 4 + 2m
4) x = 10
5) 5 months
6) 37
7) A fixed cost of $4 (e.g., a one-time fee or base price).
8) x = 3, y = 2
9) t = 200 text messages
10) y = -x + 3