ZiloAcademy

✨ Grade 7 Maths — Linear Relationships ✨

Name: Demo Grade 7 **Date:** 26/11/2026

1. A relationship follows the rule y = 6x + 1. What is y when x = 13?

2. A table shows: x = 1, 2, 3, 4 and y = 7, 9, 11, 13. Does this represent a linear relationship (a constant rate of change)? Write "yes" or "no":

3. A relationship follows the rule y = 7x + 6. What is y when x = 2?

4. A linear relationship gives: x = 8 → y = 47, and x = 9 → y = 52. Using the same relationship, what is y when x = 10?

5. A relationship follows the rule y = 3x + 6. What is y when x = 14?

6. A table shows: x = 1, 2, 3, 4 and y = 3, 6, 9, 12. Write the rule connecting x and y in the form y = mx + c.

7. A table shows: x = 1, 2, 3, 4 and y = 12, 19, 26, 33. Write the rule connecting x and y in the form y = mx + c.

8. A table shows: x = 1, 2, 3, 4 and y = 3, 5, 10, 9. Does this represent a linear relationship (a constant rate of change)? Write "yes" or "no":

9. A table shows: x = 1, 2, 3, 4 and y = 11, 15, 19, 23. Write the rule connecting x and y in the form y = mx + c.

10. A relationship follows the rule y = 3x + 5. What is y when x = 9?