Name: _____ Date: _____

Fresh Math

Constructing Linear Models - Medium

The relationship is linear. Write its equation in the form y = mx + b.

1. The line passes through (-1, 10) and (1, 18).
2. The line passes through (1, 16) and (4, 22).
3. The line passes through (2, -5) and (4, -3).
4. The line passes through (-2, -18) and (3, 12).
5. The line passes through (1, -3) and (2, 4).
6. The line passes through (5, 36) and (6, 41).
7. The line passes through (-1, 18) and (0, 13).
8. The line passes through (0, 13) and (5, 33).
9. The line passes through (1, 6) and (7, 48).
10. The line passes through (2, -8) and (3, -6).

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The relationship is linear. Write its equation in the form y = mx + b.

11. The line passes through (5, 48) and (6, 55).

12. The line passes through (-2, 2) and (4, 38).

13. The line passes through (1, 7) and (5, 23).

14. The line passes through (-2, -12) and (4, 6).

15. The line passes through (1, -4) and (2, -2).

16. The line passes through (-1, 16) and (2, 7).

17. The line passes through (4, 7) and (6, 13).

18. The line passes through (0, 5) and (5, 10).

19. The line passes through (5, 11) and (6, 14).

20. The line passes through (-2, -13) and (2, 11).

Constructing Linear Models - Medium - Answer Key

1. The line passes through (-1, 10) and (1, 18).
   y = 4x + 14

2. The line passes through (1, 16) and (4, 22).
   y = 2x + 14

3. The line passes through (2, -5) and (4, -3).
   y = x - 7

4. The line passes through (-2, -18) and (3, 12).
   y = 6x - 6

5. The line passes through (1, -3) and (2, 4).
   y = 7x - 10

6. The line passes through (5, 36) and (6, 41).
   y = 5x + 11

7. The line passes through (-1, 18) and (0, 13).
   y = -5x + 13

8. The line passes through (0, 13) and (5, 33).
   y = 4x + 13

9. The line passes through (1, 6) and (7, 48).
   y = 7x - 1

10. The line passes through (2, -8) and (3, -6).
    y = 2x - 12

Constructing Linear Models - Medium - Answer Key

11. The line passes through (5, 48) and (6, 55).
    y = 7x + 13

12. The line passes through (-2, 2) and (4, 38).
    y = 6x + 14

13. The line passes through (1, 7) and (5, 23).
    y = 4x + 3

14. The line passes through (-2, -12) and (4, 6).
    y = 3x - 6

15. The line passes through (1, -4) and (2, -2).
    y = 2x - 6

16. The line passes through (-1, 16) and (2, 7).
    y = -3x + 13

17. The line passes through (4, 7) and (6, 13).
    y = 3x - 5

18. The line passes through (0, 5) and (5, 10).
    y = x + 5

19. The line passes through (5, 11) and (6, 14).
    y = 3x - 4

20. The line passes through (-2, -13) and (2, 11).
    y = 6x - 1