Rewrite equations in y = mx + b form worksheet – Grade 7

Grade 7 · Mixed level · 20 questions · **Version X1965**

Name: _____ Date: _____ Score: ___ / 20

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1. What is the slope of the line $3y = -9x + 27$?

   Answer: _____

2. Find the slope of the line $y - x = 2$.

   Answer: _____

3. What is the y-intercept of the line $y - 2x = 7$?

   Answer: _____

4. Write $y - 6x = 6$ in slope-intercept form, $y = mx + b$.

   A. $y = -6x + 6$ **B.** $y = 6x - 6$ **C.** $y = 6x + 6$ **D.** $y = -6x - 6$

5. Work out the slope of the line $2y = 6x + 10$.

   Answer: _____

6. Find the y-intercept of the line $y - 5x = 3$.

   Answer: _____

7. Work out the y-intercept of the line $3y = 15x - 21$.

   Answer: _____

8. What is the y-intercept of the line $-20 = -7x - 4y$?

   Answer: _____

9. Work out the y-intercept of the line $x = 5y$.

   Answer: _____

10. Find the slope of the line $-6x - 3y = -15$.

    Answer: _____

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11. Find the slope of the line $3x + 4y = 24$. (a fraction like 2/3 is fine)

    Answer: _____

12. What is the slope of the line $18 = 2x + 3y$? (a fraction like 2/3 is fine)

    Answer: _____

13. Work out the slope of the line $x - 5y = 5$. (a fraction like 2/3 is fine)

    Answer: _____

14. Find the y-intercept of the line $-6x + 4y - 24 = 0$.

    Answer: _____

15. Find the y-intercept of the line $\dfrac{3(x+y)}{4} = -3$.

    Answer: _____

16. What is the y-intercept of the line $-2(-x + y) = -6$?

    Answer: _____

17. Work out the y-intercept of the line $3(-2x + y) = -18$.

    Answer: _____

18. Find the slope of the line $-4(x + y) = 24$.

    Answer: _____

19. Write $6y = \dfrac{6x - 10}{3}$ in slope-intercept form, $y = mx + b$.

    A. $y = \dfrac{1}{3}x + \dfrac{5}{9}$ **B.** $y = -\dfrac{1}{3}x + \dfrac{5}{9}$ **C.** $y = -\dfrac{1}{3}x - \dfrac{5}{9}$ **D.** $y = \dfrac{1}{3}x - \dfrac{5}{9}$

20. Work out the y-intercept of the line $4y = \dfrac{2x + 4}{2}$. (a fraction like 2/3 is fine)

    Answer: _____

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Answer key · Version X1965

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1. **-3**
2. **1**
3. **7**
4. **C (**$y = 6x + 6$**)**
5. **3**
6. **3**
7. **-7**
8. **5**
9. **0**
10. **-2**
11. **-3/4**
12. **-2/3**
13. **1/5**
14. **6**
15. **-4**
16. **3**
17. **-6**
18. **-1**
19. **D (**$y = \frac{1}{3}x - \frac{5}{9}$**)**
20. **1/2**

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