

SAT Prep
Solving Equations

Name _____

Date _____

Solve.

1. $8 + 6x = 50$

2. $8(z - 3) = -25$

3. $\frac{a + 3}{7} = 4$

4. $-1 = \frac{4a + 5}{7}$

5. $\frac{-5(2 - x)}{3} = 90$

6. $\frac{3(2k + 3)}{5} = \frac{3}{5}$

7. $\frac{-5(3y - 1)}{7} = \frac{11}{7}$

8. $16 + 2x = 10x$

9. $8w - 15 = 4w - 3$

10. $3w - 5 = 8w - 5$

11. $4(y + 8) = 7(y + 2)$

12. $5(n - 1) = 2(n + 8)$

13. $-5(p + 3) = 4(2p - 7)$

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14. If $x + 2x + 4x = -14$, then $x =$

- a) -2 b) $-\frac{7}{4}$ c) -1 d) $\frac{7}{4}$ e) 2

15. If $\frac{n+1}{5} + 2 = 3$, then $n =$

- a) 0 b) 4 c) 9 d) 12 e) 24

16. If $\frac{p}{3} + 4 = 7$, then $p =$

- a) 0 b) 4 c) 6 d) 9 e) 12

17. If $6(2 + a) = 16$, then $a =$

- a) 4 b) 3 c) 2 d) $\frac{14}{3}$ e) $\frac{2}{3}$

18. If $x + 4 = 2x - 2$, then $x =$

- a) 12 b) 10 c) 8 d) 6 e) 4

19. If $\frac{6+x}{12} = 3$, then $x =$

- a) 3 b) 6 c) 30 d) 60 e) 90

20. If $(x - 3) + (x - 2) + (x - 1) = 0$, then $3x =$

- a) 2 b) 6 c) $\frac{6}{4}$ d) 9 e) $\frac{9}{2}$