



Name: _____

Due Date: _____

Teacher: _____

Parent Sign: _____

Math Worksheet for 7th Grade

Two-step equations with decimals and fractions

Questions

1. Solve: $2x + 3 = 11$
2. Solve: $3x - 5 = 10$
3. Solve: $0.5x + 4 = 7$
4. Solve: $1.25x - 2.5 = 5$
5. Solve: $(\frac{1}{2})x + 1 = 5$
6. Solve: $(\frac{3}{4})x - 2 = 7$
7. Solve: $\frac{x}{5} + 3 = 8$
8. Solve: $4x + 1.2 = 9.2$
9. Solve: $0.2x - 1 = 3$
10. Solve: $(\frac{2}{3})x + 4 = 10$
11. Solve: $5x - 0.5 = 4.5$
12. Solve: $(\frac{5}{6})x + 1 = 6$
13. Solve: $\frac{x}{8} - 0.75 = 1.25$
14. Solve: $0.75x + 2.25 = 5.25$
15. Solve: $(\frac{4}{5})x - 3 = 1$
16. Solve: $2.5x + 0.5 = 6$
17. Solve: $\frac{x}{3} + 0.6 = 2.6$
18. Solve: $(\frac{3}{5})x - 1 = 2$
19. Solve: $0.4x + 1.6 = 3.6$
20. Solve: $(\frac{2}{5})x + 2 = 6$
21. Solve: $6x - 2.4 = 3.6$
22. Solve: $\frac{x}{4} + 0.25 = 1.25$
23. Solve: $(\frac{1}{3})x + 5 = 8$
24. Solve: $0.6x - 0.3 = 2.7$
25. Solve: $(\frac{2}{7})x + 1 = 3$
26. Solve: $7x + 0.7 = 7.7$
27. Solve: $\frac{x}{6} - 0.5 = 0.5$
28. Solve: $0.25x + 3.75 = 5.75$
29. Solve: $(\frac{5}{8})x - 2 = 3$
30. Solve: $3x + 1.5 = 7.5$
31. Solve: $(\frac{4}{3})x + 2 = 8$

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32. Solve: $0.8x - 1.2 = 2.8$

33. Solve: $\frac{x}{2} + 4.5 = 7$

34. Solve: $(\frac{6}{5})x - 1 = 5$

35. Solve: $2.5x + 1 = 6$

Find the mistake — each shows a student's incorrect steps. Identify the mistake and give the correct solution.

36. Equation: $0.5x + 2 = 5$. Student: $0.5x = 3$; then divided both sides by 3 to get $x = 1$.

37. Equation: $(\frac{1}{4})x - 3 = 5$. Student: $(\frac{1}{4})x = 8$; then multiplied both sides by $\frac{1}{4}$ to get $x = 2$.

38. Equation: $(\frac{3}{5})x + 4 = 7$. Student: $(\frac{3}{5})x = 3$; then divided both sides by 3 to get $x = 1$.

39. Equation: $0.25x + 1 = 3$. Student: $0.25x = 2$; then multiplied both sides by 0.25 to get $x = 0.5$.

40. Equation: $(\frac{5}{6})x + 2 = 7$. Student: $(\frac{5}{6})x = 5$; then divided both sides by 5 to get $x = \frac{1}{6}$.

41. Equation: $\frac{x}{5} - 2 = 3$. Student: $\frac{x}{5} = 5$; then divided both sides by 5 to get $x = 1$.

42. Equation: $0.6x - 0.6 = 2.4$. Student: $0.6x = 1.8$; then divided both sides by 6 to get $x = 0.3$.

43. Equation: $(\frac{2}{7})x + 1 = 3$. Student: $(\frac{2}{7})x = 2$; then divided both sides by 2 to get $x = 1$.

44. Equation: $1.5x + 2 = 8$. Student: $1.5x = 6$; then divided both sides by 1.5 and got $x = 2$.

45. Equation: $(\frac{4}{5})x - 3 = 1$. Student: $(\frac{4}{5})x = 4$; then multiplied both sides by $\frac{4}{5}$ to get $x = \frac{16}{5}$.

46. Equation: $0.2x + 0.8 = 1.8$. Student: $0.2x = 1.0$; then divided both sides by 2 to get $x = 0.5$.

47. Equation: $(\frac{7}{10})x - 0.5 = 1.5$. Student: $(\frac{7}{10})x = 2.0$; then multiplied both sides by $\frac{7}{10}$ to get $x = 1.4$.

48. Equation: $\frac{x}{9} + 1.2 = 2.2$. Student: $\frac{x}{9} = 1.0$; then divided both sides by 9 to get $x = 0.111\dots$

49. Equation: $(\frac{3}{4})x + 2.5 = 5.5$. Student: $(\frac{3}{4})x = 3.0$; then multiplied both sides by $\frac{3}{4}$ to get $x = 2.25$.

50. Equation: $2.2x - 1.1 = 3.3$. Student: $2.2x = 2.2$; then $x = 1$.