Name: Due Date: Teacher: Parent Sign:

Answers

1. $x = 4$

2. $x = 5$

3. $x = 6$

4. $x = 6$

5. $x = 8$

6. $x = 12$

7. $x = 25$

8. $x = 2$

9. $x = 20$

10. $x = 9$

11. $x = 1$

12. $x = 6$

13. $x = 16$

14. $x = 4$

15. $x = 5$

16. $x = 2.2$

17. $x = 6$

18. $x = 5$

19. $x = 5$

20. $x = 10$

21. $x = 1$

22. $x = 4$

23. $x = 9$

24. $x = 5$

25. $x = 7$

26. $x = 1$

27. $x = 6$

28. $x = 8$

29. $x = 8$

30. $x = 2$

31. $x = 4.5$

32. x = 5

33. x = 5

34. x = 5

35. x = 2

36. Mistake: Divided by 3 instead of dividing by 0.5 (or multiplying by 2). Correct: $0.5x = 3 \rightarrow x = 3 \div 0.5 = 6$.

37. Mistake: Multiplied by $\frac{1}{4}$ instead of by 4. Correct: $(\frac{1}{4})x = 8 \rightarrow x = 8 \times 4 = 32$.

38. Mistake: Divided by 3 instead of multiplying by the reciprocal $\frac{5}{3}$. Correct: $(\frac{3}{5})x = 3 \rightarrow x = 3 \times (\frac{5}{3}) = 5$.

39. Mistake: Multiplied by 0.25 instead of dividing by 0.25 (or multiplying by 4). Correct: $0.25x = 2 \rightarrow x = 2 \div 0.25 = 8$.

40. Mistake: Divided by 5 instead of dividing by $\frac{5}{6}$ (i.e., multiplying by $\frac{6}{5}$). Correct: $(\frac{5}{6})x = 5 \rightarrow x = 5 \times (\frac{6}{5}) = 6$.

41. Mistake: Divided by 5 instead of multiplying both sides by 5. Correct: $\frac{x}{5} = 5 \rightarrow x = 5 \times 5 = 25$.

42. Mistake: Divided by 6 (or used 6 instead of 0.6). Correct: $0.6x = 3.0 \rightarrow x = 3.0 \div 0.6 = 5$.

43. Mistake: Divided by 2 instead of multiplying by $\frac{7}{2}$. Correct: $(\frac{2}{7})x = 2 \rightarrow x = 2 \times (\frac{7}{2}) = 7$.

44. Mistake: Incorrect arithmetic when dividing 6 by 1.5 (gave 2). Correct: $1.5x = 6 \rightarrow x = 6 \div 1.5 = 4$.

45. Mistake: Multiplied by $\frac{4}{5}$ instead of dividing by $\frac{4}{5}$ (should multiply by $\frac{5}{4}$). Correct: $(\frac{4}{5})x = 4 \rightarrow x = 4 \times (\frac{5}{4}) = 5$.

46. Mistake: Divided by 2 instead of by 0.2. Correct: $0.2x = 1.0 \rightarrow x = 1.0 \div 0.2 = 5$.

47. Mistake: Multiplied by $\frac{7}{10}$ instead of multiplying by the reciprocal $\frac{10}{7}$. Correct: $(\frac{7}{10})x = 2 \rightarrow x = 2 \times (\frac{10}{7}) = \frac{20}{7}$ 2.857.

48. Mistake: Divided by 9 instead of multiplying by 9. When $\frac{x}{9} = 1 \rightarrow x = 1 \times 9 = 9$.

49. Mistake: Multiplied by $\frac{3}{4}$ instead of multiplying by $\frac{4}{3}$. Correct: $(\frac{3}{4})x = 3 \rightarrow x = 3 \times (\frac{4}{3}) = 4$.

50. Mistake: Added incorrectly: 3.3 + 1.1 2.2. Correct: 2.2x - 1.1 = 3.3 $\rightarrow$ 2.2x = 4.4 $\rightarrow$ x = 4.4 ÷ 2.2 = 2.