Student's work: $x + 7 = 12$? $x = 12 + 7$? $x = 19$

2. Equation: $x - 4 = 9$

Student's work: $x - 4 = 9$? $x = 9 - 4$? $x = 5$

3. Equation: $3x = 15$

Student's work: $3x = 15$? $x = 3 + 15$? $x = 18$

4. Equation: $5x = 20$

Student's work: $5x = 20$? $x = 20 \div 5$? $x = 4$ (student writes x = 2)

5. Equation: $x/4 = 7$

Student's work: $x/4 = 7$? $x = 7 \div 4$? $x = 1.75$

6. Equation: $x/4 = 7$

Student's work: $x/4 = 7$? $x = 7$ x 4 ? $x = 28$

7. Equation: $-3x = 15$

Student's work: $-3x = 15$? $x = 15 \div 3$? $x = 5$

8. Equation: $-3x = 15$

Student's work: $-3x = 15$? $x = -15 \div 3$? $x = -5$

9. Equation: $(\frac{1}{2})x = 8$

Student's work: $(\frac{1}{2})x = 8$? $x = 8 \div (\frac{1}{2})$? $x = 4$

10. Equation: $(\frac{1}{2})x = 8$

Student's work: $(\frac{1}{2})x = 8$? $x = 8$ x $(\frac{1}{2})$? $x = 4$

11. Equation: $0.5x = 6$

Student's work: $0.5x = 6$? $x = 6$ x 0.5 ? $x = 3$

12. Equation: $0.5x = 6$

Student's work: $0.5x = 6$? $x = 6 \div 0.5$? $x = 12$

13. Equation: $x + (-9) = 4$

Student's work: $x - 9 = 4$? $x = 4 - 9$? $x = -5$

14. Equation: $x + (-9) = 4$

Student's work: $x - 9 = 4$? $x = 4 + 9$? $x = 13$

15. Equation: $x - (-6) = 10$

Student's work: $x + 6 = 10$? $x = 10 + 6$? $x = 16$

16. Equation: $x - (-6) = 10$

Student's work: $x + 6 = 10$? $x = 10 - 6$? $x = 4$

17. Word problem: "Sam says: 'Triple a number is 21.' He writes $3x = 21$. He solves: $3x = 21$? $x = 3 + 21$? $x = 24$."

(Find the mistake.)

18. Word problem: "Lila: 'A number divided by 5 is 6.' She writes x ÷ 5 = 6. She solves: x ÷ 5 = 6 ? x = 6 ÷ 5 ? x = 1.2."

19. Equation: $(\frac{3}{4})$x = 12

Student's work: $(\frac{3}{4})$x = 12 ? x = 12 ÷ $(\frac{3}{4})$? x = 9

20. Equation: $(\frac{3}{4})$x = 12

Student's work: $(\frac{3}{4})$x = 12 ? x = 12 x $(\frac{3}{4})$? x = 9

21. Equation: -x = 7

Student's work: -x = 7 ? x = 7

22. Equation: -x = 7

Student's work: -x = 7 ? x = -7

23. Equation: x + 0 = 13

Student's work: x + 0 = 13 ? x = 13 + 0 ? x = 13

24. Equation: x + 0 = 13

Student's work: x + 0 = 13 ? x = 0

25. Word problem: "Abe: 'Five more than a number is 11.' He writes x + 5 = 11. He solves: x + 5 = 11 ? x = 11 + 5 ? x = 16."

26. Equation: 7x = 0

Student's work: 7x = 0 ? x = 0 ÷ 7 ? x = 7

27. Equation: x/(-2) = 9

Student's work: x/(-2) = 9 ? x = 9 x (-2) ? x = -18

28. Equation: x/(-2) = 9

Student's work: x/(-2) = 9 ? x = 9 ÷ (-2) ? x = -4.5

29. Equation: $(-\frac{1}{4})$x = 8

Student's work: $(-\frac{1}{4})$x = 8 ? x = 8 ÷ $(-\frac{1}{4})$? x = -32

30. Equation: $(-\frac{1}{4})$x = 8

Student's work: $(-\frac{1}{4})$x = 8 ? x = 8 x $(-\frac{1}{4})$? x = -2

31. Word problem: "Nina: 'One more than a number gives 14.' She writes x + 1 = 14. She solves: x + 1 = 14 ? x = 14 - 1 ? x = 13. (Is anything wrong?)"

32. Equation: 9x = 81

Student's work: 9x = 81 ? x = 81 ÷ 9 ? x = 8

33. Equation: x - 2 = -5

Student's work: x - 2 = -5 ? x = -5 - 2 ? x = -7

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34. Equation: x - 2 = -5

Student's work: x - 2 = -5 ? x = -5 + 2 ? x = -3

35. Equation: $(\frac{2}{5})$x = 10

Student's work: $(\frac{2}{5})$x = 10 ? x = 10 ÷ $(\frac{2}{5})$? x = 25

36. Equation: $(\frac{2}{5})$x = 10

Student's work: $(\frac{2}{5})$x = 10 ? x = 10 x $(\frac{2}{5})$? x = 4

37. Equation: 4x = -28

Student's work: 4x = -28 ? x = -28 ÷ 4 ? x = -7

38. Equation: 4x = -28

Student's work: 4x = -28 ? x = 28 ÷ 4 ? x = 7

39. Word problem: "Mike: 'A number divided by 3 equals 9.' He writes x ÷ 3 = 9. He solves x ÷ 3 = 9 ? x = 9 ÷ 3 ? x = 3."

40. Equation: x + 6 = -2

Student's work: x + 6 = -2 ? x = -2 + 6 ? x = 4

41. Equation: x + 6 = -2

Student's work: x + 6 = -2 ? x = -2 - 6 ? x = -8

42. Equation: (5)x = 25

Student's work: 5x = 25 ? x = 25 x 5 ? x = 125

43. Equation: $(\frac{1}{5})$x = 7

Student's work: $(\frac{1}{5})$x = 7 ? x = 7 x $(\frac{1}{5})$? x = 1.4

44. Equation: $(\frac{1}{5})$x = 7

Student's work: $(\frac{1}{5})$x = 7 ? x = 7 ÷ $(\frac{1}{5})$? x = 35

45. Equation: -4x = -20

Student's work: -4x = -20 ? x = -20 ÷ -4 ? x = 5

46. Equation: -4x = -20

Student's work: -4x = -20 ? x = -20 ÷ 4 ? x = -5

47. Word problem: "Jill: 'Twice a number is 10.' She writes 2x = 10. She solves: 2x = 10 ? x = 2 + 10 ? x = 12."

48. Equation: x/10 = 0.7

Student's work: x/10 = 0.7 ? x = 0.7 ÷ 10 ? x = 0.07

49. Equation: x/10 = 0.7

Student's work: x/10 = 0.7 ? x = 0.7 x 10 ? x = 7

50. Equation: $(\frac{4}{3})$x = 12