Algebra Preparation Problem Set 1

If you can find the correct solutions to the following problems, then you should be prepared to study algebra.

1. $23 + 91 =$

2. $14 + 19 =$

3. $-7 + 32 =$

4. $-9 - 13 =$

5. $5 + (-8) =$

6. $-6 + (-12) =$

7. $14 \cdot 3 =$

8. $-9 \cdot 4 =$

9. $(-8)(-7) =$

10. $1.27 \times 3.5 =$

11. $14 \div 7 =$

12. $\frac{24}{3} =$

13. $\frac{-12}{2} =$

14. $2.5 \div 0.4 =$

15. $\frac{-2}{-3} =$

16. $3^2 =$

17. $2^5 =$

18. Write $2^2 \cdot 2^3$ with as 2 to some power.

19. $(-3)^2 =$

20. $(-3)^3 =$

21. $-2^2 =$

22. $-2^3 =$

23. $|5| =$

24. $|-4| =$

25. $|7 - 13| =$

26. $\frac{1}{3} + \frac{4}{5} =$

27. $\frac{-7}{8} + \frac{1}{4} =$

28. $\left(\frac{3}{4}\right)\left(\frac{10}{11}\right) =$

29. $\frac{13}{2} \div \frac{2}{3} =$

30. $\sqrt{4} =$

31. $\sqrt{81} =$

32. $\sqrt[3]{27} =$

33. $\sqrt[3]{-64} =$

34. $\left(\frac{4}{9}\right)^2 =$

35. $\left(\frac{-3}{7}\right)^2 =$

36. $\left(\frac{-3}{2}\right)^3 =$

37. $\left(\frac{9}{4}\right)^{\frac{1}{2}} =$

38. $\left(\frac{9}{4}\right)^{-1} =$

39. $\left(\frac{1}{4}\right)^{-1} =$

40. Simplify $\frac{2^3 3^2}{2^4 3}$.