

Chapter 4 Redo Requirement (Calculator) DSPM0700

If you need to redo the Calculator portion of the test, work these problems. Make sure that you can do the problems and trust the calculator to give you the correct answer. Also, remember that just because you can use the calculator on this test, it doesn't mean that you have to use the calculator for every problem.

I. Simplify.

1. $\left(-\frac{4}{5} + \frac{11}{15}\right) \div \frac{10}{21}$

2. $\left(-\frac{2}{9} - \frac{1}{3}\right) \cdot \frac{18}{25}$

3. $\left[\frac{1}{4} + \left(-\frac{7}{12}\right)\right] \div \frac{8}{9}$

4. $\left(-\frac{4}{9}\right)^3$

5. $\left(\frac{1}{4}\right)^3$

6. $\left(-\frac{3}{4}\right)^3$

7. $\frac{9}{20} - \frac{3}{4} \cdot \frac{2}{15}$

8. $\left(\frac{1}{2} + \frac{1}{3}\right)\left(\frac{2}{15} + \frac{1}{3}\right)$

9. $\frac{6}{7}\left(5 - \frac{1}{3}\right)$

10. $15\frac{2}{3} - 11\frac{7}{8}$

11. $-4\frac{1}{2}\left(-5\frac{1}{3}\right)$

12. $43\frac{1}{8} - 12\frac{7}{10}$

13. $\frac{3}{10}\left(14 - 8\frac{1}{2}\right)$

14. $5\frac{3}{5}\left(-1\frac{3}{7}\right)$

15. $-4\frac{1}{2} - 3\frac{1}{3}$

II. Write the prime factorization for the following.

16. 80

17. 108

18. 300

III. Evaluate the following when $m = \frac{3}{4}$ and $n = -\frac{2}{5}$.

19. $2m + n^2$

20. $2n \div m$

21. $m^2 + 5n$

IV. Use the distributive property to simplify the following expressions.

22. $\frac{3}{4}(12n + 48)$

23. $\frac{15}{16}(32m - 48n)$

24. $\frac{3}{7}(70x + 42y)$

V. Solve the following equations.

25. $m - \frac{4}{5} = \frac{11}{15}$

26. $x - \frac{4}{7} = \frac{8}{35}$

27. $n + \frac{1}{2} = -\frac{7}{8}$

28. $-\frac{2}{9}x = -\frac{3}{4}$

29. $\frac{5}{7}y = -\frac{10}{21}$

30. $\frac{6}{13}a = -\frac{1}{3}$

31. $\frac{n}{4} - 3 = \frac{1}{5}$

32. $\frac{x}{3} - 4 = 12$

33. $\frac{1}{5}p - 4 = 2$

34. $\frac{w}{2} - 6 = \frac{1}{4}$

35. $\frac{y}{4} + 4 = -\frac{1}{2}$

36. $\frac{1}{5}m - 3 = 6$

VI. Find the following.37. The area of a square with side of $3\frac{1}{2}$ inches.38. The area of a rectangle with a length of $4\frac{1}{2}$ cm and a width of $1\frac{1}{3}$ cm.39. The area of a rectangle with a length of $5\frac{3}{4}$ feet and a width of $2\frac{1}{2}$ feet.40. The perimeter of a square with a side of $3\frac{1}{2}$ inches.41. The perimeter of a rectangle with a length of $4\frac{1}{2}$ cm and a width of $1\frac{1}{3}$ cm.