

Chapter 4 Calculator Practice Test

DSPM 0700

You may use a calculator to help you with these problems.

Write the prime factorization of each of the following.

1. 72

1. _____

2. 189

2. _____

3. 96

3. _____

4. 80

4. _____

Use the distributive property to simplify the following expressions.

5. $\frac{1}{2}(6a - 14b)$

5. _____

6. $15\left(\frac{1}{3}x + \frac{1}{5}\right)$

6. _____

7. $\frac{3}{5}(20y - 25)$

7. _____

8. $\frac{2}{3}(12m - 18n)$

8. _____

Simplify.

9. $\left(-\frac{2}{5}\right)^3$

9. _____

10. $\left(\frac{4}{5}\right)^2$

10. _____

11. $-5\frac{1}{4} \cdot \frac{2}{3}$

11. _____

12. $9\frac{1}{4} + 5\frac{1}{6}$

12. _____

13. $\frac{1}{5}\left(\frac{2}{3} + \frac{1}{6}\right)$

13. _____

Simplify.

14. $\left(\frac{5}{6} - \frac{2}{3}\right) \div \frac{1}{4}$

14. _____

15. $\frac{7}{12} \left(\frac{4}{14}\right) \div \frac{1}{2}$

15. _____

16. $\left(-\frac{4}{5} + \frac{3}{4}\right) \cdot \frac{2}{3}$

16. _____

Evaluate the following.

17. rt , for $r = -78$ and $t = -\frac{3}{2}$

17. _____

18. $4m \div n$, for $m = \frac{3}{8}$ and $n = -\frac{1}{3}$

18. _____

Solve each equation.

19. $-\frac{7}{12}g = \frac{7}{16}$

19. _____

20. $5k + \frac{1}{4} = \frac{11}{12}$

20. _____

21. $\frac{1}{3}y + 5 = 10$

21. _____

22. $-\frac{4}{5}x + 2 = 6$

22. _____

Find each of the following.

23. Perimeter of a rectangle with length of $\frac{1}{2}$ ft. and width of $\frac{5}{12}$ ft.

23. _____

24. Area of a rectangle with length of $\frac{3}{8}$ ft. and width of $\frac{5}{12}$ ft.

24. _____

Answers to Practice Test for Chapter S 2, S3, and 4 Test

1. $2^3 \cdot 3^2$
2. $3^3 \cdot 7$
3. $2^5 \cdot 3$
4. $2^4 \cdot 5$
5. $3a - 7b$
6. $5x + 3$
7. $12y - 15$
8. $8m - 12n$
9. $-\frac{8}{125}$
10. $\frac{16}{25}$
11. $-3\frac{1}{2}$
12. $14\frac{5}{12}$
13. $\frac{1}{6}$
14. $\frac{2}{3}$
15. $\frac{1}{3}$
16. $-\frac{1}{30}$
17. 117
18. $-\frac{9}{2}$
19. $g = -\frac{3}{4}$
20. $k = \frac{2}{15}$
21. $y = 15$
22. $x = -5$
23. $1\frac{5}{6}$ feet
24. $\frac{5}{32}$ square feet