Chapter 4 Pencil Practice Test DSPM0700

Do NOT use a calculator on these problems.

Write each of the following as an equivalent fraction.

1. $\frac{5}{12}=\frac{40}{?}$ 1. _____

2. $\frac{7}{15}=\frac{?}{90}$ 2. _____

3. $\frac{6}{7}=\frac{?}{84}$ 3. _____

4. $\frac{11}{13}=\frac{55}{?}$ 4. _____

Use > or < to make a true statement.

5. $\frac{3}{5}$ ___ $\frac{6}{11}$ 5. _____

6. $\frac{1}{2}$ ___ $\frac{8}{15}$ 6. _____

7. $\frac{15}{23}$ ____ $\frac{14}{25}$ 7. _____

8. $\frac{3}{8}$ ____ $\frac{3}{7}$ 8. _____

Simplify.

9. $-\frac{425}{525}$ 9. _____

10. $\frac{152}{176}$ 10. _____

11. $-\frac{54}{63}$ 11. _____

12. $\frac{14}{84}$ 12. _____

Write the following mixed numbe rs as improper fractions.

13. $-5\frac{3}{7}$ 13. _____

14. $-15\frac{4}{9}$ 14. _____

15. $1\frac{9}{10}$ 15. _____

16. $4\frac{5}{8}$ 16. _____

Simplify.

17. $\frac{3}{4}-\frac{7}{8}$ 17. _____

18. $-\frac{2}{9}+\frac{11}{27}$ 18. _____

19. $-\frac{2}{5}\cdot\frac{15}{24}$ 19. _____

20. $\frac{1}{5}-\frac{3}{10}-\frac{4}{15}$ 20. _____

21. $\frac{-5}{24}\div\frac{15}{64}$ 21. _____

22. $\frac{-9}{13}-\frac{4}{13}$ 22. _____

23. $\frac{11}{16}+\frac{5}{16}$ 23. _____

24. $\frac{1}{2}+\frac{4}{15}\cdot\frac{10}{16}$ 24. _____

25. $\left(\frac{1}{4}\right)^3$ 25. _____

26. $\left(\frac{-2}{7}\right)^2$ 26. _____

Simplify.

27. $12 - 4\frac{2}{9}$ 27. _____

28. $6\frac{2}{5} + 7\frac{3}{5}$ 28. _____

Evaluate the following.

29. $x + yz$, for $x = \frac{1}{3}$, $y = \frac{1}{3}$ and $z = 5$ 29. _____

30. $3x^2 + y$, for $x = \frac{5}{6}$ and $y = -\frac{2}{3}$ 30. _____

Solve each equation.

31. $\frac{3}{5}x = 15$ 31. _____

32. $\frac{x}{6} = 2$ 32. _____

33. $a + \frac{3}{7} = \frac{5}{14}$ 33. _____

34. $n - \frac{3}{4} = \frac{7}{12}$ 34. _____

Find each of the following.

35. Perimeter for a rectangle with a length of $4\frac{1}{2}$ inches and a width of 7 inches.

35. _____

36. Area of a rectangle with a length of $4\frac{1}{2}$ inches and a width of 7 inches.

36. _____

Answer Key Chapters 2S, 3S, 4 Pencil Practice Test

1. 96
2. 42
3. 72
4. 65
5. >
6. <
7. >
8. <
9. $-\frac{17}{21}$
10. $\frac{19}{22}$
11. $-\frac{6}{7}$
12. $\frac{1}{6}$
13. $-\frac{38}{7}$
14. $-\frac{139}{9}$
15. $\frac{19}{10}$
16. $\frac{37}{8}$
17. $-\frac{1}{8}$
18. $\frac{5}{27}$
19. $-\frac{1}{4}$
20. $-\frac{11}{30}$
21. $-\frac{8}{9}$
22. -1
23. 1
24. $\frac{2}{3}$
25. $\frac{1}{64}$
26. $\frac{4}{49}$
27. $7\frac{7}{9}$
28. 14
29. 2
30. $\frac{17}{12}$ or $1\frac{5}{12}$
31. $x = 25$
32. $x = 12$
33. $a = -\frac{1}{14}$
34. $n = 1\frac{1}{3}$ or $\frac{4}{3}$
35. 23 inches
36. $31\frac{1}{2}$ square inches