

Pre-Algebra
Chapter 5 Review

Name _____ Date _____ Per _____

Remember to show your work and check it.

Write the fraction or mixed number as a decimal.

1. $\frac{34}{3}$

2. $\frac{-29}{4}$

1. _____

2. _____

3. $5\frac{14}{15}$

4. $-10\frac{7}{36}$

3. _____

4. _____

Write the decimal as a fraction or mixed number.

5. 0.65

6. -5.28

5. _____

6. _____

7. -0.13

8. 3.76

7. _____

8. _____

Simplify the expression

9. $\frac{7x}{20} + \frac{17x}{20}$

10. $\frac{19n}{28} + \frac{n}{28}$

9. _____

10. _____

11. $\frac{-a}{6} - \frac{9a}{22}$

12. $-\frac{4x}{17} + \frac{3x}{5}$

11. _____

12. _____

Evaluate the expression. (Simplify)

13. $\frac{1}{12} + \frac{5}{12} + \frac{11}{12}$

14. $3\frac{1}{9} + 2\frac{7}{9} + 1\frac{3}{9}$

13. _____

14. _____

15. $\frac{7}{6} - 1\frac{3}{3} - \frac{2}{12}$

16. $2\frac{1}{3} + 5\frac{1}{9} + 1\frac{2}{21}$

15. _____

16. _____

Find the sum or difference.

17. $\frac{43}{100} + \frac{17}{100}$

18. $\frac{9}{80} - \frac{51}{80}$

17. _____

18. _____

19. $1\frac{3}{4} - 4\frac{3}{14}$

20. $-6\frac{3}{25} + 3\frac{1}{2}$

19. _____

20. _____

Find the product or quotient.

21. $\frac{14}{25} \cdot \frac{3}{7}$

22. $-51 \cdot \frac{5}{6}$

21. _____

22. _____

23. $2\frac{1}{12} \cdot -10\frac{4}{5}$

24. $-\frac{7}{20} \div \frac{5}{6}$

23. _____

24. _____

25. $-\frac{16}{25} \div (-2)$

26. $8\frac{7}{10} \div \frac{33}{50}$

25. _____

26. _____

27. $\frac{7a^5}{22} \cdot \frac{4a}{21}$

28. $-\frac{7n^2}{10} \cdot \frac{2n^3}{9}$

27. _____

29. $-\frac{4s}{7} \cdot \frac{s^7}{8}$

30. $\frac{p^3}{22} \cdot \frac{11p}{12}$

28. _____

29. _____

30. _____

Solve the Equation or inequality.

31. $\frac{5}{8}x = 30$

32. $\frac{7}{11}x = 14$

31. _____

32. _____

33. $-24 = -\frac{12}{19}x$

34. $\frac{4}{5}x = \frac{7}{5}$

33. _____

34. _____

35. $\frac{1}{2} = \frac{9}{14}x - \frac{4}{7}$

36. $\frac{1}{2}x + 9 = 36$

35. _____

36. _____

37. $\frac{4}{7}x + 8 > 28$

38. $\frac{5}{11}g + \frac{4}{11} < \frac{3}{11}$

37. _____

38. _____

39. You have a piece of wood that is $23\frac{3}{8}$ feet long. You need to cut pieces that are $1\frac{3}{8}$ feet long. How many pieces can you cut?

39. _____

40. The weight of a bull calf is 388 kilograms. If its weight increases at a rate of $1\frac{2}{5}$ kilograms per day, how long will it take the bull calf to reach a weight of 500 kilograms?

40. _____