

# Pre-Algebra II Chapter 5 Practice Test

Find the LCM of each group of numbers or expressions.

1. 10, 45
2.  $12a^4$ ,  $18a^3$
3.  $15ab$ ,  $20ab$ ,  $35a^4$

Write the metric unit that makes each statement true.

4. 45 dam = 4.5

Convert from one unit to the other.

1 lb = 16 oz; 1 pt = 2 c; 1 ft = 12 in; 1 yd = 3 ft

5. 10 oz =  lb
6. 2.3 pt =  c
7. 5 yd =  in

Compare. Use  $<$ ,  $>$ , or  $=$  to complete each statement.

8.  $\frac{5}{8} \bigcirc \frac{4}{5}$
9.  $\frac{3}{4} \bigcirc \frac{12}{24}$
10.  $\frac{-1}{6} \bigcirc \frac{-1}{7}$

Complete each statement.

11. 0.35 m =  mm
12. 6 cg =  kg
13. 54 hL =  dL

Write each fraction as a decimal.

14.  $\frac{3}{4}$
15.  $\frac{-12}{5}$
16.  $\frac{17}{8}$

**Find each product or quotient.**

17.  $\frac{3}{4} \cdot \frac{2x}{3}$

18.  $\frac{5}{6} \div \frac{5}{3}$

19.  $\frac{75}{8} \div \frac{5}{8}$

20.  $\frac{-2}{9} \cdot \frac{9}{22}$

21.  $\frac{5y}{9} \div \frac{2y}{3}$

**Write each decimal as a simplified fraction or mixed number.**

22. 0.52

23. 2.75

24.  $0.\overline{21}$

**Solve each equation.**

25.  $m - \frac{2}{3} = \frac{1}{5}$

26.  $\frac{1}{3} = m + \frac{5}{8}$

27.  $\frac{7}{16} = c + \frac{3}{16}$

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

29.  $\frac{5}{2}n = \frac{25}{4}$

30.  $-2c = \frac{8}{3}$

**Find each sum or difference.**

31.  $\frac{1}{7} + \frac{3}{7}$

32.  $\frac{1}{2} - \frac{4}{5}$

33.  $\frac{4}{x} + \frac{3}{5}$

## Pre-Algebra II Chapter 5 Practice Test Answer Key

### Answers

- |                     |                          |
|---------------------|--------------------------|
| 1. 90               | 26. $-7/24$              |
| 2. $36a^4$          | 27. $1/4$                |
| 3. $420a^4b$        | 28. 12                   |
| 4. hm               | 29. $5/2$                |
| 5. $5/8$ lb         | 30. $-4/3$               |
| 6. 4.6 c            | 31. $4/7$                |
| 7. 180 in           | 32. $-3/10$              |
| 8. $<$              | 33. $\frac{20 + 3x}{5x}$ |
| 9. $>$              |                          |
| 10. $<$             |                          |
| 11. 350             |                          |
| 12. .00006          |                          |
| 13. 54,000          |                          |
| 14. .75             |                          |
| 15. -2.4            |                          |
| 16. 2.125           |                          |
| 17. $x/2$           |                          |
| 18. $1/2$           |                          |
| 19. 15              |                          |
| 20. $-1/11$         |                          |
| 21. $5/6$           |                          |
| 22. $13/25$         |                          |
| 23. $2 \frac{3}{4}$ |                          |
| 24. $7/33$          |                          |
| 25. $13/15$         |                          |