

UNIT 01—NUMERALS AND FRACTIONS

Express the following as Roman numerals.

1. 45 = _____

ANSWER: XLV

2. 24 = _____

ANSWER: XXIV

3. 250 = _____

ANSWER: CCL

4. 569 = _____

ANSWER: DLXIX

5. 87 = _____

ANSWER: LXXXVII

Express the following as Arabic numerals.

6. MCMXCIX = _____

ANSWER: 1999

7. VIII = _____

ANSWER: 8

8. XLVII = _____

ANSWER: 47

9. CDXCVI = _____

ANSWER: 496

10. XXXIX = _____

ANSWER: 39

Reduce the following fractions to lowest terms.

11. $\frac{50}{75}$ = _____

ANSWER: $\frac{2}{3}$

12. $\frac{40}{80}$ = _____

ANSWER: $\frac{1}{2}$

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13. $6/120 =$ _____

ANSWER: $1/20$

14. $66/99 =$ _____

ANSWER: $2/3$

15. $21/49 =$ _____

ANSWER: $3/7$

Express the following mixed numbers as improper fractions.

16. $3 \frac{4}{5} =$ _____

ANSWER: $19/5$

17. $12 \frac{2}{7} =$ _____

ANSWER: $86/7$

18. $2 \frac{1}{3} =$ _____

ANSWER: $7/3$

19. $10 \frac{5}{9} =$ _____

ANSWER: $95/9$

20. $1 \frac{1}{2} =$ _____

ANSWER: $3/2$

Express the following improper fractions as mixed numbers. Express answers in lowest terms.

21. $19/6 =$ _____

ANSWER: $3 \frac{1}{6}$

22. $105/25 =$ _____

ANSWER: $4 \frac{1}{5}$

23. $36/17 =$ _____

ANSWER: $2 \frac{2}{17}$

24. $15/6 =$ _____

ANSWER: $2 \frac{1}{2}$

25. $73/9 =$ _____

ANSWER: $8 \frac{1}{9}$

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Add the following fractions and mixed numbers. Express answers as a mixed number when possible and in the lowest terms.

26. $\frac{3}{4} + \frac{1}{2} =$ _____

ANSWER: $1 \frac{1}{4}$

27. $7 \frac{3}{8} + 6 \frac{5}{8} =$ _____

ANSWER: 14

28. $2 \frac{3}{5} + 10 \frac{7}{10} =$ _____

ANSWER: $13 \frac{3}{10}$

29. $\frac{1}{2} + \frac{3}{4} + \frac{7}{8} =$ _____

ANSWER: $2 \frac{1}{8}$

30. $\frac{2}{3} + \frac{1}{6} + \frac{7}{18} =$ _____

ANSWER: $1 \frac{2}{9}$

Subtract the following fractions and mixed numbers. Express answers as a mixed number when possible and in the lowest terms.

31. $\frac{7}{8} - \frac{3}{8} =$ _____

ANSWER: $\frac{1}{2}$

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

ANSWER: $1 \frac{3}{5}$

33. $12 \frac{1}{18} - 5 \frac{5}{6} =$ _____

ANSWER: $6 \frac{2}{9}$

34. $\frac{9}{25} - \frac{3}{50} =$ _____

ANSWER: $\frac{3}{10}$

35. $5 \frac{1}{3} - 2 \frac{3}{5} =$ _____

ANSWER: $2 \frac{9}{10}$

Multiply the following fractions and mixed numbers. Express answers in lowest terms, using mixed numbers when possible.

36. $\frac{5}{6} \times \frac{1}{4} =$ _____

ANSWER: $\frac{5}{24}$

37. $2 \frac{2}{3} \times 5 \frac{2}{5} =$ _____

ANSWER: $14 \frac{2}{5}$

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38. $12 \frac{1}{7} \times 10 \frac{8}{9} =$ _____

ANSWER: $132 \frac{2}{9}$

39. $\frac{2}{7} \times \frac{9}{14} =$ _____

ANSWER: $\frac{9}{49}$

40. $\frac{1}{2} \times 3 \frac{2}{5} =$ _____

ANSWER: $1 \frac{7}{10}$

Divide the following fractions and mixed numbers. Express answers in lowest terms, using mixed numbers when possible.

41. $\frac{4}{6} \div \frac{1}{4} =$ _____

ANSWER: $2 \frac{2}{3}$

42. $25 \div \frac{1}{2} =$ _____

ANSWER: 50

43. $1 \frac{2}{3} \div \frac{1}{6} =$ _____

ANSWER: 10

44. $\frac{7}{8} \div \frac{1}{4} =$ _____

ANSWER: $3 \frac{1}{2}$

45. $\frac{5}{6} \div \frac{9}{10} =$ _____

ANSWER: $\frac{25}{27}$