|  |
| --- |
| *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. 50/75 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 2/3 | |

|  |  |  |
| --- | --- | --- |
| 12. 40/80 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 1/2 | |

|  |  |  |
| --- | --- | --- |
| 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 4/5 = \_\_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 19/5 | |

|  |  |  |
| --- | --- | --- |
| 17. 12 2/7 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 86/7 | |

|  |  |  |
| --- | --- | --- |
| 18. 2 1/3 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 7/3 | |

|  |  |  |
| --- | --- | --- |
| 19. 10 5/9 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 95/9 | |

|  |  |  |
| --- | --- | --- |
| 20. 1 1/2 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 3/2 | |

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

|  |  |  |
| --- | --- | --- |
| 21. 19/6 = \_\_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 3 1/6 | |

|  |  |  |
| --- | --- | --- |
| 22. 105/25 = \_\_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 4 1/5 | |

|  |  |  |
| --- | --- | --- |
| 23. 36/17 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 2 2/17 | |

|  |  |  |
| --- | --- | --- |
| 24. 15/6 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 2 1/2 | |

|  |  |  |
| --- | --- | --- |
| 25. 73/9 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 8 1/9 | |

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

|  |  |  |
| --- | --- | --- |
| 26. 3/4 + 1/2 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 1 1/4 | |

|  |  |  |
| --- | --- | --- |
| 27. 7 3/8 + 6 5/8 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 14 | |

|  |  |  |
| --- | --- | --- |
| 28. 2 3/5 + 10 7/10 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 13 3/10 | |

|  |  |  |
| --- | --- | --- |
| 29. 1/2 + 3/4 + 7/8 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 2 1/8 | |

|  |  |  |
| --- | --- | --- |
| 30. 2/3 + 1/6 + 7/18 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 1 2/9 | |

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

|  |  |  |
| --- | --- | --- |
| 31. 7/8 – 3/8 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 1/2 | |

|  |  |  |
| --- | --- | --- |
| 32. 2 4/5 – 1 1/5 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 1 3/5 | |

|  |  |  |
| --- | --- | --- |
| 33. 12 1/18 – 5 5/6 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 6 2/9 | |

|  |  |  |
| --- | --- | --- |
| 34. 9/25 – 3/50 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 3/10 | |

|  |  |  |
| --- | --- | --- |
| 35. 5 1/3 – 2 3/5 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 2 9/10 | |

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

|  |  |  |
| --- | --- | --- |
| 36. 5/6 × 1/4 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 5/24 | |

|  |  |  |
| --- | --- | --- |
| 37. 2 2/3 × 5 2/5 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 14 2/5 | |

|  |  |  |
| --- | --- | --- |
| 38. 12 1/7 × 10 8/9 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 132 2/9 | |

|  |  |  |
| --- | --- | --- |
| 39. 2/7 × 9/14 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 9/49 | |

|  |  |  |
| --- | --- | --- |
| 40. 1/2 × 3 2/5 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 1 7/10 | |

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

|  |  |  |
| --- | --- | --- |
| 41. 4/6 / 1/4 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 2 2/3 | |

|  |  |  |
| --- | --- | --- |
| 42. 25 / 1/2 = \_\_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 50 | |

|  |  |  |
| --- | --- | --- |
| 43. 1 2/3 / 1/6 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 10 | |

|  |  |  |
| --- | --- | --- |
| 44. 7/8 / 1/4 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 3 1/2 | |

|  |  |  |
| --- | --- | --- |
| 45. 5/6 / 9/10 = \_\_\_\_\_\_\_\_\_\_   |  |  | | --- | --- | | *ANSWER:* | 25/27 | |