

ARITHMETIC GATEWAY EXAM

Do *not* round any values. All fractions must be *simplified* to lowest terms. *No* answer should be written as an improper fraction, instead write as a mixed number.

1. $\begin{array}{r} 68 \\ + 73 \\ \hline \end{array}$	2. $\begin{array}{r} 57,444 \\ 98,037 \\ 4,002 \\ + 19,019 \\ \hline \end{array}$	3. $\begin{array}{r} 316 \\ - 84 \\ \hline \end{array}$	4. $\begin{array}{r} 239,001 \\ - 56,948 \\ \hline \end{array}$	5. $\begin{array}{r} 738 \\ \times 9 \\ \hline \end{array}$	6. $\begin{array}{r} 624 \\ \times 705 \\ \hline \end{array}$	7. $7 \overline{)4,543}$
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8. $29 \overline{)286,901}$	9. $\frac{4}{5} + \frac{2}{5}$	10. $\frac{7}{8} + \frac{7}{12}$	11. $3\frac{1}{5} + 5\frac{2}{3}$	12. $\frac{4}{7} - \frac{2}{7}$	13. $\frac{8}{9} - \frac{5}{6}$
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14. $7\frac{2}{3} - 6\frac{1}{4}$	15. $8\frac{1}{6} - 2\frac{3}{7}$	16. $\frac{4}{11} \times \frac{33}{52}$	17. $1\frac{3}{8} \times 2\frac{2}{5}$	18. $\frac{5}{8} \div \frac{15}{28}$	19. $4\frac{1}{3} \div 2\frac{2}{5}$
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20. $8.312 - 5$	21. $16 + 0.041 + 2.3$	22. 36.2×2.9	23. $0.7 \overline{)1.6576}$
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24. 0.8% of 750	25. $16\frac{2}{3}\%$ of \$2400	26. 230% of 700	27. What percent of 45 is 15?
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28. What percent of 17 is 8?	29. 80% of what number is 70?
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Below are the Minnesota K-12 Academic Standards in Mathematics reference number for each of the above questions. For the actual exam, these are the blanks for the solutions. In order to pass, you will need to answer 25 of the questions correctly.

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| 1. <u>2.1.2.4</u> | 11. <u>5.1.3.1</u> | 21. <u>5.1.3.1</u> |
| 2. <u>3.1.2.1</u> | 12. <u>4.1.3.3</u> | 22. <u>6.1.3.1</u> |
| 3. <u>3.1.2.1</u> | 13. <u>5.1.3.1</u> | 23. <u>6.1.3.1</u> |
| 4. <u>3.1.2.1</u> | 14. <u>5.1.3.1</u> | 24. <u>6.1.3.3</u> |
| 5. <u>3.1.2.5</u> | 15. <u>5.1.3.1</u> | 25. <u>6.1.3.3</u> |
| 6. <u>4.1.2.2</u> | 16. <u>6.1.3.1</u> | 26. <u>6.1.3.3</u> |
| 7. <u>4.1.2.5</u> | 17. <u>6.1.3.1</u> | 27. <u>6.1.3.3</u> |
| 8. <u>4.1.2.5</u> | 18. <u>6.1.3.1</u> | 28. <u>6.1.3.3</u> |
| 9. <u>4.1.3.3</u> | 19. <u>6.1.3.1</u> | 29. <u>6.1.3.3</u> |
| 10. <u>5.1.3.1</u> | 20. <u>5.1.3.1</u> | |