

Math Test — January 11, 2026

Name: _____

Score: _____ / _____

A) Addition & Subtraction

1) Add:

$$\begin{array}{r} 21766 \\ 6629 \\ 2281 \\ + \quad 6618 \\ \hline \end{array}$$

2) Subtract:

$$\begin{array}{r} 5854 \\ - \quad 4061 \\ \hline \end{array}$$

B) Long Multiplication

3) Multiply:

$$\begin{array}{r} 7787 \\ \times \quad 22 \\ \hline \end{array}$$

4) Multiply:

$$\begin{array}{r} 2552 \\ \times \quad 98 \\ \hline \end{array}$$

C) Division & Fractions

5) $660 \div 12 =$ _____

6) $600 \div 15 =$ _____

7) $25/40$ (simplify) = _____

8) $132/22$ (simplify) = _____

9) Add the fractions (show your work):

a) $4/5 + 6/12 =$ _____

b) $2/4 + 3/6 =$ _____

10) Mixed decimal & fraction:

$0.2 - 0.01 + 1/4 =$ _____

D) Prime Factorization

11) Write each number as a product of prime factors:

a) $420 =$ _____

b) $210 =$ _____

c) $252 =$ _____

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A) Mixed Fractions and Improper Fractions

1) Convert mixed numbers to improper fractions:

a) $1 \frac{1}{5} = \underline{\hspace{2cm}} / \underline{\hspace{2cm}}$

b) $3 \frac{6}{10} = \underline{\hspace{2cm}} / \underline{\hspace{2cm}}$

c) $1 \frac{2}{3} = \underline{\hspace{2cm}} / \underline{\hspace{2cm}}$

d) $1 \frac{2}{4} = \underline{\hspace{2cm}} / \underline{\hspace{2cm}}$

e) $5 \frac{6}{12} = \underline{\hspace{2cm}} / \underline{\hspace{2cm}}$

2) Convert improper fractions to mixed numbers:

a) $\frac{33}{12} = \underline{\hspace{2cm}} \underline{\hspace{2cm}} / \underline{\hspace{2cm}}$

b) $\frac{15}{2} = \underline{\hspace{2cm}} \underline{\hspace{2cm}} / \underline{\hspace{2cm}}$

c) $\frac{23}{3} = \underline{\hspace{2cm}} \underline{\hspace{2cm}} / \underline{\hspace{2cm}}$

d) $\frac{19}{6} = \underline{\hspace{2cm}} \underline{\hspace{2cm}} / \underline{\hspace{2cm}}$

e) $\frac{72}{10} = \underline{\hspace{2cm}} \underline{\hspace{2cm}} / \underline{\hspace{2cm}}$

B) HCF (GCD) and LCM

3) For each pair, find BOTH HCF and LCM:

a) 112 and 104 HCF: _____ LCM: _____

b) 64 and 104 HCF: _____ LCM: _____

c) 108 and 156 HCF: _____ LCM: _____

d) 144 and 88 HCF: _____ LCM: _____

C) Area

4) Find the area of each shape (show your work):