

# Math Test — January 11, 2026

Name: \_\_\_\_\_

Score: \_\_\_\_\_ / \_\_\_\_\_

## A) Addition & Subtraction

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1) Add:

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

2) Subtract:

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

## B) Long Multiplication

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3) Multiply:

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

4) Multiply:

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

## C) Division & Fractions

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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

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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

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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)  $\frac{33}{12} = \underline{\hspace{1cm}} \underline{\hspace{1cm}} / \underline{\hspace{1cm}}$

b)  $\frac{15}{2} = \underline{\hspace{1cm}} \underline{\hspace{1cm}} / \underline{\hspace{1cm}}$

c)  $\frac{23}{3} = \underline{\hspace{1cm}} \underline{\hspace{1cm}} / \underline{\hspace{1cm}}$

d)  $\frac{19}{6} = \underline{\hspace{1cm}} \underline{\hspace{1cm}} / \underline{\hspace{1cm}}$

e)  $\frac{72}{10} = \underline{\hspace{1cm}} \underline{\hspace{1cm}} / \underline{\hspace{1cm}}$

## B) HCF (GCD) and LCM

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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

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