

MATHEMATICS - 7

^{12%}
DIRECTIONS: Write True before each true statement and False before each false statement.

- ① $3 \times 4\frac{1}{2}$ or $3 \times (4 + \frac{1}{2}) = (3 \times 4) + (3 \times \frac{1}{2})$ illustrates the distributive property of multiplication over addition.
- ② $\frac{4}{8}$; $\frac{2}{4}$; $\frac{1}{2}$ are like fractions.
- ③ The set of odd numbers $\{1, 3, 5, 7, \dots\}$ is closed under addition.
- ④ $\frac{3}{8}$; $\frac{1}{4}$; $\frac{3}{5}$; $\frac{7}{3}$ name fractional numbers.

^{16%}
DIRECTIONS: Place between each pair of fractions the appropriate symbol ($<$; $=$; $>$) so that a true statement is formed. ($<$ less than) ($>$ greater than) ($=$ equals)

- ① $\frac{21}{30}$ () $\frac{7}{10}$ ③ $\frac{12}{15}$ () $\frac{6}{4}$
- ② $\frac{7}{5}$ () $\frac{12}{35}$ ④ $\frac{35}{6}$ () $\frac{75}{18}$

NOTE - Show your work in work area at the bottom of this page.

^{16%}
DIRECTIONS: Change the following mixed fractions to improper fractions. Please, show your work.

- ① $7\frac{9}{16} =$ ② $2\frac{3}{32} =$ ③ $1\frac{16}{32} =$ ④ $2\frac{5}{24} =$

DIRECTIONS: Reduce the following fractions to lowest terms. Please, show your work.

- ① $\frac{180}{840} =$ ② $\frac{93}{310} =$

WORK AREA

18%
DIRECTIONS: Change the following to mixed fractions in lowest or simplest forms. Please, show your work.

① $\frac{98}{42} =$

② $\frac{26}{16} =$

③ $\frac{32}{21} =$

④ $\frac{47}{32} =$

⑤ $\frac{39}{18} =$

⑥ $\frac{43}{24} =$

22%
DIRECTIONS: Solve the following problems. Work to simplest form. Please, show your work.

ADDITION

①
$$\begin{array}{r} 7\frac{5}{6} \\ \frac{7}{8} \\ + 2\frac{1}{4} \end{array}$$

②
$$\begin{array}{r} 4\frac{1}{5} \\ 3\frac{3}{4} \\ + 2\frac{3}{10} \end{array}$$

SUBTRACTION

①
$$\begin{array}{r} 1\frac{3}{8} \\ - \frac{4}{5} \end{array}$$

②
$$\begin{array}{r} 6 \\ - 2\frac{5}{8} \end{array}$$

MULTIPLICATION

① $\frac{2}{3} \times \frac{3}{5} =$

② $3\frac{1}{7} \times 10\frac{1}{2} =$

③ $3\frac{1}{8} \times \frac{12}{1} =$

④ $120 \times 2\frac{1}{4} \times \frac{2}{3} =$