M8 Ch 3
Practice Test
Answers

Name _____

Blk _____

1) $3 \times \frac{2}{5} = \boxed{\frac{2}{5} + \frac{2}{5} + \frac{2}{5}}$

2) $5 \times \frac{3}{7} = \frac{5}{1} \times \frac{3}{7} = \frac{15}{7} = \boxed{2\frac{1}{7}}$

3) $3 \times \frac{2}{5} = \frac{3}{1} \times \frac{2}{5} = \frac{6}{5} = \boxed{1\frac{1}{5}}$

4) $\frac{7}{9} \times \frac{4}{5} = \boxed{\frac{28}{45}}$

5) $\frac{\cancel{4}^{1}}{\cancel{5}_{1}} \times \frac{\cancel{25}^{5}}{\cancel{16}_{4}} = \frac{5}{4} = \boxed{1\frac{1}{4}}$

6) Reciprocal of $\frac{9}{14} = \frac{14}{9}$

7)

12	36
1×12	1×36
2×6	2×18
3×4	3×12
	4×9
	6×6

GCF: 12

8) $4\frac{2}{5} = \boxed{\frac{22}{5}}$

9) $\frac{47}{6} = 47 \div 6 = \boxed{7\frac{5}{6}}$

10) $\frac{3}{4} \times 2\frac{4}{5} = \frac{3}{\cancel{4}_{2}} \times \frac{\cancel{14}^{7}}{5} = \frac{21}{10} = \boxed{2\frac{1}{10}}$

11) $1\frac{9}{12} \times 3\frac{2}{3} = \frac{\cancel{21}^{7}}{12} \times \frac{11}{\cancel{3}_{1}} = \frac{77}{12} = \boxed{6\frac{5}{12}}$

12) $6 \div \frac{4}{5} = \frac{\cancel{6}^{3}}{1} \times \frac{5}{\cancel{4}_{2}} = \frac{15}{2} = \boxed{7\frac{1}{2}}$

13) $4 \div \frac{1}{3} = \frac{4}{1} \times \frac{3}{1} = \frac{12}{1} = \boxed{12}$

14) $\frac{6}{7} \div 3 = \frac{\cancel{6}^{2}}{7} \times \frac{1}{\cancel{3}_{1}} = \boxed{\frac{2}{7}}$

15) $\frac{6}{4} \div \frac{18}{16} = \frac{\cancel{6}^{1}}{\cancel{4}_{1}} \times \frac{\cancel{16}^{4}}{\cancel{18}_{3}} = \frac{4}{3} = \boxed{1\frac{1}{3}}$

16) $\frac{1}{3} \div \frac{4}{12} = \frac{1}{\cancel{3}_{1}} \times \frac{\cancel{12}^{4}}{4} = \frac{4}{4} = \boxed{1}$

17) $\frac{5}{12} \div \frac{25}{18} = \frac{\cancel{5}^{1}}{\cancel{12}_{2}} \times \frac{\cancel{18}^{3}}{\cancel{25}_{5}} = \boxed{\frac{3}{10}}$

18) $\frac{7}{13} \div \frac{1}{3} = \frac{7}{13} \times \frac{3}{1} = \frac{21}{13} = \boxed{1\frac{8}{13}}$

19) $6\frac{7}{8} = \boxed{\frac{55}{8}}$

20) $3\frac{4}{5} \div \frac{3}{7} = \frac{19}{5} \div \frac{3}{7} = \frac{19}{5} \times \frac{7}{3} = \frac{133}{15} = \boxed{8\frac{13}{15}}$

$\begin{array}{r} 19 \\ 7 \\ \hline 133 \end{array}$

21) $4\frac{3}{7} \div \frac{4}{5} = \frac{31}{7} \times \frac{5}{4} = \frac{155}{28} = \boxed{5\frac{15}{28}}$

$\begin{array}{r} 28 \\ 5 \\ \hline 140 \end{array}$

22) Addition

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23) $3\frac{1}{4} + \frac{2}{3} = ?$ $\quad \frac{13 \cdot 3}{4 \cdot 3} + \frac{2 \cdot 4}{3 \cdot 4} = \frac{39}{12} + \frac{8}{12} = \frac{47}{12} = \boxed{3\frac{11}{12}}$

24) $\frac{3 \cdot 8}{5 \cdot 8} - \frac{1 \cdot 5}{8 \cdot 5} = \frac{24}{40} - \frac{5}{40} = \boxed{\frac{19}{40}}$

25) $\frac{1 \cdot 5}{9 \cdot 5} + \frac{2 \cdot 9}{5 \cdot 9} = \frac{5}{45} + \frac{18}{45} = \frac{23}{45}$; $\frac{45}{45} - \frac{23}{45} = \boxed{\frac{22}{45} \text{ left}}$

whole bar

26) $\frac{2}{7} \times 2\frac{+3}{\cdot 5} = \frac{2}{7} \times \frac{13}{5} = \boxed{\frac{26}{35}h}$

27) $16 \div \frac{2}{3} = \frac{{}^{8}\cancel{16}}{1} \times \frac{3}{\cancel{2}_{1}} = \frac{24}{1} = \boxed{24 \text{ servings}}$

28) addition

29) $\frac{2}{5} \times \frac{3}{6} - \frac{2}{3} = \frac{{}^{1}\cancel{2}}{5} \times \frac{3}{\cancel{6}_{3}} = \frac{3}{15} - \frac{2 \cdot 5}{3 \cdot 5} = \frac{3}{15} - \frac{10}{15} = \boxed{\frac{-7}{15}}$

30) $\frac{8}{9} - \frac{2}{3} \div \frac{4}{6} = \frac{{}^{1}\cancel{2}}{{}_{1}\cancel{3}} \times \frac{\cancel{6}^{2}}{\cancel{4}_{2}} = \frac{2}{2} \rightarrow \frac{8}{9} - 1 = \frac{8}{9} - \frac{9}{9} = \boxed{\frac{-1}{9}}$

1

31) $\frac{{}^{3}\cancel{36}}{{}_{2}\cancel{22}} \times \frac{\cancel{99}^{9}}{\cancel{48}_{4}} = \frac{27}{8} = \boxed{3\frac{3}{8}}$