Test 15

1) $\frac{9}{9}+\frac{2}{9}=\frac{11}{9}$

2) $\frac{5}{5}+\frac{5}{5}+\frac{5}{5}+\frac{3}{5}=\frac{18}{5}$

3) $\frac{3}{3}+\frac{1}{3}=\frac{4}{3}$

4) $\frac{4}{4}+\frac{4}{4}+\frac{1}{4}=\frac{9}{4}$

5) $\frac{4}{4}+\frac{3}{4}=1\frac{3}{4}$

6) $\frac{2}{2}+\frac{2}{2}+\frac{2}{2}+\frac{2}{2}+\frac{1}{2}=4\frac{1}{2}$

7) $\frac{5}{5}+\frac{5}{5}+\frac{3}{5}=2\frac{3}{5}$

8) $\frac{6}{6}+\frac{6}{6}+\frac{6}{6}+\frac{5}{6}=3\frac{5}{6}$

9) $\frac{14}{16}=\frac{7}{8}$

10) $\frac{8}{16}=\frac{1}{2}$

11) $\frac{3}{9}\div\frac{3}{3}=\frac{1}{3}$

12) $\frac{20}{28}\div\frac{4}{4}=\frac{5}{7}$

13) $\frac{18}{32}\div\frac{2}{2}=\frac{9}{16}$

14) $16^2 = 256$ sq. in.

15) $3^2 = 9$ sq. mi.

16) 64

17) 36

18) yes

19) 15: 3, 5, 15
30: 2, 3, 5, 6, 10, 15, 30
GCF = 15

20) 3 x 3 x 5

Test 16

1) $3\frac{3}{4}$

2) $2\frac{8}{10}=2\frac{4}{5}$

3) $\frac{8}{8}+\frac{1}{8}=\frac{9}{8}$

4) $\frac{6}{6}+\frac{6}{6}+\frac{5}{6}=\frac{17}{6}$

5) $\frac{4}{4}+\frac{4}{4}+\frac{1}{4}=2\frac{1}{4}$

6) $\frac{7}{7}+\frac{7}{7}+\frac{7}{7}+\frac{3}{7}=3\frac{3}{7}$

7) $\frac{27}{63}+\frac{14}{63}=\frac{41}{63}$

8) $\frac{6}{48}+\frac{8}{48}=\frac{14}{48}\div\frac{2}{2}=\frac{7}{24}$

9) $\frac{8}{24}-\frac{6}{24}=\frac{2}{24}\div\frac{2}{2}=\frac{1}{12}$

10) $\frac{5}{6}\times\frac{11}{12}=\frac{55}{72}$

11) $\frac{10}{20}\div\frac{6}{20}=\frac{10\div6}{20}=\frac{10}{6}=\frac{5}{3}=1\frac{2}{3}$

12) $\frac{2}{3}\times\frac{7}{20}=\frac{14}{60}\div\frac{2}{2}=\frac{7}{30}$

13) 10 x 4 = 40 sq. ft.

14) 10 + 4 + 10 + 4 = 28 ft.

15) $23^2 = 529$ sq. in.

16) 23 + 23 + 23 + 23 = 92 in.

17) (1/2)(12)(5) = 30 sq. ft.

18) 5 + 12 + 13 = 30 ft.

19) 16 x 16 = 256

20) 36: 2, 3, 4, 6, 9, 12, 18, 36
42: 2, 3, 6, 7, 14, 21, 42
GCF = 6

Unit Test II

1) $\frac{9}{18}\div\frac{10}{18}=\frac{9\div10}{1}=\frac{9}{10}$

2) $\frac{18}{42}\div\frac{35}{42}=\frac{18\div35}{1}=\frac{18}{35}$

3) $\frac{56}{98}\div\frac{35}{98}=\frac{56\div35}{1}=\frac{56}{35}=\frac{8}{5}=1\frac{3}{5}$

4) $\frac{21}{27}\div\frac{18}{27}=\frac{21\div18}{1}=\frac{21}{18}=\frac{7}{6}=1\frac{1}{6}$

5) $\frac{24}{32}\div\frac{4}{32}=\frac{24\div4}{1}=6$

6) $\frac{5}{20}\div\frac{12}{20}=\frac{5\div12}{1}=\frac{5}{12}$

7) $\frac{1}{4}\times\frac{1}{3}=\frac{1}{12}$

8) $\frac{4}{5}\times\frac{7}{10}=\frac{28}{50}=\frac{14}{25}$

9) $\frac{2}{5}\times\frac{1}{2}=\frac{2}{10}=\frac{1}{5}$

10) $\frac{3}{4}\times\frac{1}{4}=\frac{3}{16}$

11) $\frac{3}{7}\times\frac{2}{9}=\frac{6}{63}=\frac{2}{21}$

12) $\frac{1}{8}\times\frac{1}{6}=\frac{1}{48}$

13) yes

14) no

15) yes

16) no

17) 28: 2, 4, 7, 14, 28
54: 2, 3, 6, 9, 18, 27, 54
GCF = 2

18) 2 x 2 x 3 x 5

19) $\frac{4}{12}\div\frac{4}{4}=\frac{1}{3}$

20) $\frac{15}{20}\div\frac{5}{5}=\frac{3}{4}$

21) $\frac{18}{42}\div\frac{6}{6}=\frac{3}{7}$

22) $\frac{4}{4}+\frac{3}{4}=\frac{7}{4}$

23) $\frac{9}{9}+\frac{9}{9}+\frac{7}{9}=\frac{25}{9}$

24) $\frac{5}{5}+\frac{5}{5}+\frac{3}{5}=2\frac{3}{5}$

25) $\frac{3}{3}+\frac{3}{3}+\frac{3}{3}+\frac{1}{3}=3\frac{1}{3}$

26) $1\frac{10}{16}=1\frac{5}{8}$

27) $4\frac{1}{10}$

28) $3\frac{2}{8}=3\frac{1}{4}$

29) 7 x 3 = 21 sq. ft.

30) $12^2 = 144$ sq. in.

31) (1/2)(8)(6) = 24 sq. ft.

32) 9 x 9 = 81

33) $\frac{3}{4}\div\frac{1}{16}=\frac{48}{64}\div\frac{4}{64}=\frac{48\div4}{1}=12$

34) $\frac{3}{4}\times\frac{1}{2}=\frac{3}{8}$