

Test 11

- 1) no
- 2) yes
- 3) no
- 4) yes
- 5) 1, 2, 4, 8  
1, 2, 3, 4, 6, 8, 12, 24  
GCF = 8
- 6) 1, 2, 5, 10  
1, 2, 4, 5, 10, 20  
GCF = 10
- 7) 1, 3, 13, 39  
1, 3, 5, 15  
GCF = 3
- 8) 1, 2, 7, 14  
1, 2, 4, 7, 14, 28  
GCF = 14
- 9)  $\frac{1}{8} \times \frac{2}{7} = \frac{2}{56}$
- 10)  $\frac{2}{9} \times \frac{4}{5} = \frac{8}{45}$
- 11)  $\frac{3}{6} \times \frac{1}{6} = \frac{3}{36}$
- 12)  $\frac{2}{16} \div \frac{8}{16} = \frac{2 \div 8}{1} = \frac{2}{8}$
- 13)  $\frac{12}{18} \div \frac{3}{18} = \frac{12 \div 3}{1} = 4$
- 14)  $\frac{50}{60} \div \frac{18}{60} = \frac{50 \div 18}{1} = \frac{50}{18}$  or  $2 \frac{14}{18}$
- 15)  $\frac{36}{48} = \frac{36}{48}$
- 16)  $\frac{30}{80} < \frac{32}{80}$
- 17)  $\frac{9}{18} < \frac{10}{18}$
- 18)  $25 \frac{23}{26}$
- 19)  $4 \frac{62}{82}$
- 20)  $15 \frac{3}{51}$

Test 12

- 1)  $\frac{8}{10} \div \frac{2}{2} = \frac{4}{5}$
- 2)  $\frac{12}{20} \div \frac{4}{4} = \frac{3}{5}$
- 3)  $\frac{27}{30} \div \frac{3}{3} = \frac{9}{10}$
- 4)  $\frac{20}{30} \div \frac{10}{10} = \frac{2}{3}$
- 5)  $\frac{15}{25} \div \frac{5}{5} = \frac{3}{5}$
- 6)  $\frac{36}{48} \div \frac{12}{12} = \frac{3}{4}$
- 7) yes
- 8) no
- 9) no
- 10) no
- 11)  $\frac{12}{24} + \frac{6}{24} = \frac{18}{24} \div \frac{6}{6} = \frac{3}{4}$
- 12)  $\frac{12}{54} + \frac{9}{54} = \frac{21}{54} \div \frac{3}{3} = \frac{7}{18}$
- 13)  $\frac{2}{3} \times \frac{5}{6} = \frac{10}{18} \div \frac{2}{2} = \frac{5}{9}$
- 14)  $\frac{5}{8} \times \frac{1}{10} = \frac{5}{80} \div \frac{5}{5} = \frac{1}{16}$
- 15)  $\frac{10}{50} + \frac{40}{50} = \frac{10 \div 40}{1} = \frac{10}{40} + \frac{10}{10} = \frac{1}{4}$
- 16)  $\frac{12}{21} \div \frac{14}{21} = \frac{12 \div 14}{1} = \frac{12}{14} \div \frac{2}{2} = \frac{6}{7}$
- 17) 350,676
- 18) 2,555,308
- 19)  $\frac{3}{8} \times \frac{1}{2} = \frac{3}{16}$
- 20)  $\frac{6}{8} \div \frac{1}{4} = \frac{24}{32} \div \frac{8}{32} = \frac{24 \div 8}{1} = 3$

Test 13

- 1)  $2 \times 5 \times 5$
- 2)  $2 \times 2 \times 2 \times 2 \times 3$
- 3)  $3 \times 3 \times 7$
- 4)  $3 \times 3 \times 11$
- 5)  $\frac{20}{30} = \frac{\cancel{2} \times 2 \times \cancel{5}}{\cancel{2} \times 3 \times \cancel{5}} = \frac{2}{3}$
- 6)  $\frac{63}{81} = \frac{\cancel{3} \times \cancel{3} \times 7}{\cancel{3} \times \cancel{3} \times 3 \times 3} = \frac{7}{9}$
- 7)  $\frac{36}{42} = \frac{\cancel{2} \times 2 \times \cancel{3} \times 3}{\cancel{2} \times \cancel{3} \times 7} = \frac{6}{7}$
- 8)  $\frac{12}{72} + \frac{30}{72} = \frac{42}{72} \div \frac{6}{6} = \frac{7}{12}$
- 9)  $\frac{30}{42} + \frac{35}{42} = \frac{30 + 35}{1} = \frac{30}{35} + \frac{5}{5} = \frac{6}{7}$
- 10)  $\frac{3}{4} \times \frac{1}{3} = \frac{3}{12} \div \frac{3}{3} = \frac{1}{4}$
- 11)  $\frac{32}{56} > \frac{21}{56}$
- 12)  $\frac{55}{110} < \frac{60}{110}$
- 13)  $\frac{15}{60} > \frac{8}{60}$
- 14)  $63 \frac{82}{83}$
- 15) 246
- 16)  $12 \frac{388}{512}$  or  $12 \frac{97}{128}$
- 17)  $25 \times 17 = 425$  qts.
- 18)  $\frac{1}{7} + \frac{7}{10} = \frac{10}{70} + \frac{49}{70} = \frac{59}{70}$  riding  
 $\frac{70}{70} - \frac{59}{70} = \frac{11}{70}$  walking
- 19)  $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$
- 20)  $\frac{12}{42} > \frac{7}{42}$  so  $\frac{2}{7} > \frac{1}{6}$   
more bought dictionaries

Test 14

- 1)  $\frac{4}{5}$
- 2)  $\frac{4}{8} = \frac{1}{2}$
- 3)  $\frac{10}{16} = \frac{5}{8}$
- 4)  $\frac{2}{16} = \frac{1}{8}$
- 5)  $\frac{13}{16}$
- 6)  $\frac{5}{16}$
- 7)  $2 \times 2 \times 2 \times 3$
- 8)  $2 \times 2 \times 19$
- 9)  $2 \times 2 \times 2 \times 2 \times 3$
- 10)  $\frac{32}{54} = \frac{\cancel{2} \times 2 \times 2 \times 2 \times \cancel{2}}{\cancel{2} \times 3 \times 3 \times 3} = \frac{16}{27}$
- 11)  $32 \times 15 = 480$  sq. in.
- 12)  $10 \times 4 = 40$  sq. ft.
- 13)  $49 \times 24 = 1,176$  sq. yds.
- 14) no
- 15) 16: 2, 4, 8, 16  
44: 2, 4, 11, 22  
GCF = 4
- 16)  $\frac{2}{5} \times \frac{3}{4} = \frac{6}{20} \div \frac{2}{2} = \frac{3}{10}$
- 17)  $650 \div 10 = 65$
- 18) perimeter