12. $(30)\times(30)=(900)$
$26\times33=858$
13. $(80)\times(80)=(6{,}400)$
$75\times83=6{,}225$
14. $(60)\times(20)=(1{,}200)$
$61\times17=1{,}037$
15. $16\times12=192$ books
16. $\frac{1}{2}+\frac{1}{5}=\frac{5}{10}+\frac{2}{10}=\frac{7}{10}$ of his elephants
17. $\frac{4}{9}+\frac{3}{6}=\frac{24}{54}+\frac{27}{54}=\frac{51}{54}$ of the apples
18. $\frac{3}{4}-\frac{1}{8}=\frac{24}{32}-\frac{4}{32}=\frac{20}{32}$ of a pizza
19. 500
20. $\frac{7}{10}\times60=42$ minutes

Lesson Test 7

1. $\frac{7}{28}<\frac{12}{28}$
2. $\frac{6}{16}<\frac{8}{16}$
3. $\frac{36}{45}>\frac{10}{45}$
4. $\frac{18}{33}<\frac{22}{33}$
5. $\frac{35}{63}<\frac{54}{63}$
6. $\frac{24}{32}=\frac{24}{32}$
7. $\frac{9}{72}+\frac{32}{72}=\frac{41}{72}$
8. $\frac{10}{15}-\frac{3}{15}=\frac{7}{15}$
9. $\frac{24}{30}+\frac{5}{30}=\frac{29}{30}$
10. $\frac{2}{5}=\frac{4}{10}=\frac{6}{15}=\frac{8}{20}$
11. $19\div2=9\frac{1}{2}$
12. $51\div6=8\frac{3}{6}$
13. $39\div5=7\frac{4}{5}$
14. $(40)\times(20)=(800)$
$39\times24=936$
15. $(70)\times(20)=(1{,}400)$
$72\times15=1{,}080$
16. $(70)\times(40)=(2{,}800)$
$68\times43=2{,}924$
17. $\frac{5}{8}$ of 16 = 10 maple trees
18. $\frac{10}{50}<\frac{15}{50}$ Douglas ate more.
19. $\frac{1}{5}$ of 20 = 4 chocolates (Christa)
$\frac{3}{10}$ of 20 = 6 chocolates (Douglas)
$4<6$; yes
20. $\frac{8}{10}-\frac{2}{10}=\frac{6}{10}$ inch more

Lesson Test 8

1. $\frac{7}{14}+\frac{6}{14}=\frac{13}{14}$
$\frac{13}{14}+\frac{1}{3}=\frac{39}{42}+\frac{14}{42}=\frac{53}{42}=1\frac{11}{42}$
2. $\frac{16}{24}+\frac{6}{24}=\frac{22}{24}$
$\frac{22}{24}+\frac{2}{3}=\frac{66}{72}+\frac{48}{72}=\frac{114}{72}=1\frac{42}{72}$
3. $\frac{24}{32}+\frac{12}{32}=\frac{36}{32}$
$\frac{36}{32}+\frac{1}{2}=\frac{72}{64}+\frac{35}{64}=\frac{104}{64}=1\frac{40}{64}$
Using the shorter method would yield this solution:
$\frac{6}{8}+\frac{3}{8}+\frac{4}{8}=\frac{13}{8}=1\frac{5}{8}$
Both solutions have the same value.
4. $\frac{18}{24}+\frac{4}{24}=\frac{22}{24}$
$\frac{22}{24}+\frac{1}{5}=\frac{110}{120}+\frac{24}{120}=\frac{134}{120}=1\frac{14}{120}$
5. $\frac{4}{16}+\frac{8}{16}=\frac{12}{16}$
$\frac{12}{16}+\frac{2}{5}=\frac{60}{80}+\frac{32}{80}=\frac{92}{80}=1\frac{12}{80}$
6. $\frac{3}{6}+\frac{4}{6}+\frac{5}{6}=\frac{12}{6}=2$
7. $\frac{16}{32}=\frac{16}{32}$
8. $\frac{24}{56}>\frac{21}{56}$
9. $\frac{8}{20}<\frac{15}{20}$
10. $\frac{3}{9}=\frac{6}{18}=\frac{9}{27}=\frac{12}{36}$