Test 1

1) $1 \times 1 \times 1 \times 1 = 1$
2) $10 \times 10 = 100$
3) $13 \times 13 = 169$
4) $3 \times 3 \times 3 = 27$
5) $12 \times 12 = 144$
6) $7 \times 7 = 49$
7) 2
8) 3
9) 4
10) 4
11) 2
12) 3
13) $8 \times 8 \times 8$
14) 512
15) $96 \div 4 = 24$
    $24 \times 1 = 24$
16) $88 \div 8 = 11$
    $11 \times 3 = 33$
17) $100 \div 10 = 10$
    $10 \times 7 = 70$
18) $60 \div 4 = 15$
    $15 \times 3 = 45$
19) $24 \div 8 = 3$
    $3 \times 1 = 3$
20) $20 \div 10 = 2$
    $2 \times 9 = 18$

Test 2

1) $10 \times 10 \times 10 \times 10 = 10{,}000$
2) $10 \times 10 = 100$
3) $10 \times 10 \times 10 = 1{,}000$
4) 1
5) 6
6) 0
7) $1 \times 100 + 2 \times 10 + 5 \times 1$
8) $3 \times 1{,}000 + 9 \times 100 + 3 \times 10 + 2 \times 1$
9) $9 \times 10^3 + 2 \times 10^1 \ 8 \times 10^0$
10) $1 \times 10^4 + 6 \times 10^3 + 9 \times 10^1$
11) $83{,}200$
12) $2{,}680$
13) $8 \times 8 = 64$
14) $2 \times 2 \times 2 = 8$
15) 3
16) $\frac{1}{8} = \frac{2}{16} = \frac{3}{24} = \frac{4}{32}$
17) $\frac{4}{5} = \frac{8}{10} = \frac{12}{15} = \frac{16}{20}$
18) $24 \div 6 = 4$
    $4 \times 3 = 12$ hrs.
19) $24 - 12 = 12$ hrs.
20) $1/2$ of $60 = 30$
    $1/3$ of $60 = 20$
    $1/4$ of $60 = 15$
    $1/4$ of $60 = 15$
    $1/2$ of $60 = 30$
    $30 + 20 + 15 + 15 + 30 = 110$ min

Test 3

1) $3 \times 10^1 + 4 \times 10^0 + 6 \times \dfrac{1}{10^1}$
2) $1 \times \dfrac{1}{10^1} + 2 \times \dfrac{1}{10^2} + 4 \times \dfrac{1}{10^3}$
3) $5{,}417.04$
4) $1{,}000.875$
5) dimes; pennies;
   $3.00 + .0 + .05 = 3.05$
6) dollars; dimes; penny;
   $6.00 + .4 + .01 = 6.41$
7) $10 \times 10 \times 10 = 1{,}000$
8) $1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1 = 1$
9) $6 \times 6 = 36$
10) $11 \times 11 = 121$
11) $\frac{2}{9} = \frac{4}{18} = \frac{6}{27} = \frac{8}{36}$
12) $\frac{1}{7} = \frac{2}{14} = \frac{3}{21} = \frac{4}{28}$
13) $\frac{1}{4}$
14) $\frac{1}{25}$
15) $\frac{1}{8}$
16) $\frac{1}{6}$
17) $4.63
18) 50
19) $\frac{1}{2}$
20) 5^2

Test 4

1) 12.1
2) 2.2
3) 14.64
4) 7.33
5) $1 \times 1 \times 1 = 1$
6) $10 \times 10 = 100$
7) $6 \times 6 \times 6 = 216$
8) $7 \times 7 = 49$
9) $8{,}400.2$
10) 269.005
11) $\frac{4}{5} = \frac{8}{10} = \frac{12}{15} = \frac{16}{20}$
12) $\frac{5}{9} = \frac{10}{18} = \frac{15}{27} = \frac{20}{36}$
13) $\frac{9}{54} + \frac{12}{54} = \frac{21}{54} = \frac{7}{18}$
14) $\frac{10}{50} + \frac{35}{50} = \frac{45}{50} = \frac{9}{10}$
15) $\frac{8}{24} + \frac{9}{24} = \frac{17}{24}$
16) $\$4.75 + \$6.29 = \$11.04$
    $\$11.04 > \$11.00$; yes
17) $1.2 + .75 + 1.15 = 3.1$ carats
18) $\frac{4}{10} = \frac{2}{5}$
19) $\frac{5}{8} + \frac{1}{6} = \frac{30}{48} + \frac{8}{48} = \frac{38}{48} = \frac{19}{24}$
20) $30 \div 5 = 6$
    $6 \times 3 = 18$