YEAR 7 TEST 6A

1 $\frac{73}{1000}$

$= \frac{70+3}{1000}$

$= \frac{70}{1000} + \frac{3}{1000}$

$= \frac{7}{100} + \frac{3}{1000}$

$= 0.073$

2 In 15.462 the value of the 6 is $\frac{6}{100}$.

3 a 0.972

b eighteen and a fifty one thousandths

c $23.836 = 20 + 3 + 0.8 + 0.03 + 0.006$

4 3.147, 3.471, 3.714, 31.47

5 a \$0.55

b \$23.25

6 a i $\frac{4}{5}$

$= \frac{4\times2}{5\times2}$

$= \frac{8}{10}$

ii 0.8

b i $\frac{9}{50}$

$= \frac{9\times2}{50\times2}$

$= \frac{18}{100}$

ii 0.18

7 0.67

$= \frac{67}{100}$

$= 67\%$

8 9% of 300

$= 0.09 \times \$300$

$= \$27$

9 a

$$\begin{array}{r} {}^{1}\not{2}\,{}^{11}\not{1}\,5\,9 \\ -\,0\,.\,6\,3\,8 \\ \hline 1\,.\,5\,2\,1 \end{array}$$

i.e., 1.521 kg

b 3.803×1000

$= 3.803$

$= 3803$

c $39.6 \div 100$

$= 39.6$

$= 0.396$

10 a

$$\begin{array}{r} 38.95 \\ 19.50 \\ 8.95 \\ 8.95 \\ \hline 76.35 \end{array}$$

i.e., Lee's dad spent \$76.35

b change = \$100 − \$76.35

$$\begin{array}{r} \$1\,{}^{9}\not{0}\,{}^{9}\not{0}\,.\,{}^{9}\not{0}\,{}^{1}0 \\ -\,7\,6\,.\,3\,5 \\ \hline 2\,3\,.\,6\,5 \end{array}$$

i.e., \$23.65

c $\$76.35 \times 4$

$= \$305.40$

$$\begin{array}{r} 76.35 \\ \times\ 4 \\ \hline \$305.40 \end{array}$$

11

$$\begin{array}{r} 0\,.\,2\,0 \\ \$\,8\,.\,0\,0 \\ 4\overline{)\$\,3\,2\,.\,8\,0} \\ -3\,2\,.\,0\,0 \\ \hline 0\,.\,8\,0 \\ -\,0\,.\,8\,0 \\ \hline 0\,.\,0\,0 \end{array}$$

$\therefore$ they receive \$8.20 each.