

YEAR 7 TEST 3A

1 a $85 + 372 + 15$
 $= 85 + 15 + 372$
 $= 100 + 372$
 $= 472$

b
$$\begin{array}{r} 1213 \\ - 586 \\ \hline 1887 \end{array}$$

c
$$\begin{array}{r} 23991 \\ - 427 \\ \hline 2574 \end{array}$$

2 a 68×10
 $= 680$

b $2700 \div 100$
 $= 27$

3 a 745×20 $\begin{array}{r} 745 \\ \times 2 \\ \hline 1490 \end{array}$
 $= 745 \times 2 \times 10$
 $= 1490 \times 10$
 $= 14900$

b $5 \times 89 \times 60$ $\begin{array}{r} 89 \\ \times 3 \\ \hline 267 \end{array}$
 $= 5 \times 60 \times 89$
 $= 300 \times 89$
 $= 3 \times 89 \times 100$
 $= 267 \times 100$
 $= 26700$

4 a
$$\begin{array}{r} 90 \\ 1000 \\ 9 \overline{) 9810} \\ \underline{-9000} \\ 810 \\ \underline{-810} \\ 0 \end{array}$$

$\therefore 9810 \div 9 = 1090$

b
$$\begin{array}{r} 8 \\ 30 \\ 8 \overline{) \$304} \\ \underline{-240} \\ 64 \\ \underline{-64} \\ 00 \end{array}$$

$\therefore \$304 \div 8 = \38

5 a $8 + 5 \times 9 - 7$
 $= 8 + 45 - 7$ { \times first}
 $= 53 - 7$
 $= 46$

b $36 \div 4 \times 2 + 5$
 $= 9 \times 2 + 5$ { \div first}
 $= 18 + 5$ { \times next}
 $= 23$

6 $6 \xrightarrow{+4} 10 \xrightarrow{\div 5} 2$
 $16 \xrightarrow{+4} 20 \xrightarrow{\div 5} 4$
 $26 \xrightarrow{+4} 30 \xrightarrow{\div 5} 6$
 So, $56 \xrightarrow{+4} 60 \xrightarrow{\div 5} 12$

and the operations are $+ 4$ followed by $\div 5$

7 Factors of 40 are
 1 and 40; 2 and 20; 4 and 10; 5 and 8

8 a Factors of 69 are
 1 and 69; 3 and 23

b composite

9 36, 40, 44, 48, 52, 56, 60

10 Multiples of 6 are:
 6, 12, 18, (24), 30, 36,

Multiples of 8 are:
 8, 16, (24), 32, 40,

\therefore LCM of 6 and 8 is 24.

11 Total winnings = $23 \times \$45$

$$\begin{array}{r} 23 \\ \times 45 \\ \hline 115 \\ 920 \\ \hline 1035 \end{array} \quad \begin{array}{l} \{23 \times 5\} \\ \{23 \times 40\} \\ \{\text{adding}\} \end{array}$$

i.e., \$1035

Check: winnings $\div 20 \times 50$
 $\div \$1000$