

1.6 (a)

$$\begin{array}{r} x+y \\ 533 \\ +234 \\ \hline 767 \end{array}$$

x-y

$$\begin{array}{r} 533 \\ -234 \\ \hline 277 \end{array}$$

x\*y

$$\begin{array}{r} 533 \\ \times 234 \\ \hline 2554 \\ 2021 \\ \hline 1266 \\ 151564 \leftarrow \text{product} \end{array}$$

scratch pad

$$\begin{array}{l} 3 \times 4 = (14)8 \\ 3 \times 4 = (14)8 \\ 5 \times 4 = (24)8 \\ 3 \times 3 = (11)8 \\ 3 \times 3 = (11)8 \\ 5 \times 3 = (17)8 \\ 3 \times 2 = (6)8 \\ 3 \times 2 = (6)8 \\ 5 \times 2 = (12)8 \end{array}$$

x/y

$$\begin{array}{r} 2 \\ 533 \\ \overline{)470} \\ 43 \end{array}$$

(b)

$$\begin{array}{r} x+y \\ 46537 \\ +234 \\ \hline 46773 \end{array}$$

x-y

$$\begin{array}{r} 46537 \\ -234 \\ \hline 46303 \end{array}$$

x\*y

$$\begin{array}{r} 46537 \\ \times 234 \\ \hline 232574 \\ 164035 \\ 115276 \\ \hline 13622744 \leftarrow \text{product} \end{array}$$

scratch pad

$$\begin{array}{l} 7 \times 4 = (34)8 \\ 3 \times 4 = (14)8 \\ 5 \times 4 = (24)8 \\ 6 \times 4 = (30)8 \\ 4 \times 4 = (20)8 \\ 7 \times 3 = (25)8 \\ 3 \times 3 = (11)8 \\ 5 \times 3 = (17)8 \\ 6 \times 3 = (22)8 \\ 4 \times 3 = (14)8 \\ 7 \times 2 = (16)8 \\ 3 \times 2 = (6)8 \\ 5 \times 2 = (12)8 \\ 6 \times 2 = (14)8 \\ 4 \times 2 = (10)8 \end{array}$$

x/y

$$\begin{array}{r} 173 \\ 46537 \\ \overline{)234} \\ 2313 \\ 2204 \\ 1077 \\ 724 \\ \hline 153 \end{array}$$

1.8 (c)

x+y

$$\begin{array}{r} 26 \\ +533 \\ \hline 561 \end{array}$$

x-y

$$\begin{array}{r} 533 \\ -26 \\ \hline 505 \end{array}$$

→ -505(x<y)

x\*y

$$\begin{array}{r} 26 \\ \times 533 \\ \hline 102 \\ 102 \\ \hline 156 \\ 16722 \leftarrow \text{product} \end{array}$$

scratch pad

$$\begin{array}{l} 6 \times 3 = (22)8 \\ 2 \times 3 = (6)8 \\ 6 \times 5 = (36)8 \\ 2 \times 5 = (12)8 \end{array}$$

x/y

$$\begin{array}{r} 0 \\ 533 \\ \overline{)26} \\ 0 \end{array}$$

(d)

x+y

$$\begin{array}{r} 123.2 \\ +234.0 \\ \hline 357.2 \end{array}$$

x-y

$$\begin{array}{r} 234.0 \\ -123.2 \\ \hline 110.6 \end{array}$$

= -110.6(X<Y)

x\*y

$$\begin{array}{r} 123.2 \\ \times 234.0 \\ \hline 0000 \\ 5150 \\ 3716 \\ \hline 2464. \\ 312730.0 \end{array}$$

scratch pad

$$\begin{array}{l} 2 \times 4 = 10 \\ 3 \times 4 = 14 \\ 2 \times 4 = 10 \\ 1 \times 4 = 4 \\ 2 \times 3 = 6 \\ 3 \times 3 = 11 \\ 2 \times 3 = 6 \\ 1 \times 3 = 3 \end{array}$$

Octal

$$\begin{array}{r} 10 \\ 14 \\ 10 \\ 4 \\ 6 \\ 11 \\ 6 \\ 3 \\ \hline 3716 \end{array}$$

x/y

$$\begin{array}{r} 234 \\ 123.2 \\ \overline{)234} \\ 234 \\ \hline 123.2 \\ 116.0 \\ \hline 5.2 \end{array}$$