

## 1.2 Addition

1.  $46 + 18 + 10$

$$\begin{array}{r} 46 \\ 18 \\ + 10 \\ \hline 74 \end{array}$$

2.  $9,758 + 346 + 1,012$

$$\begin{array}{r} 9758 \\ 346 \\ + 1012 \\ \hline 11,116 \end{array}$$

## 1.3 Subtraction

1.  $42 - 31$

$$\begin{array}{r} 42 \\ - 31 \\ \hline 11 \end{array}$$

2. 101 from 1,000

$$\begin{array}{r} 099 \\ 1,000 \\ - 101 \\ \hline 899 \end{array} \quad \begin{array}{r} 899 \\ + 101 \\ \hline 1,000 \end{array}$$

$$\begin{array}{r}
 3. \quad \overset{1}{20}, \overset{2}{345} \\
 - 1,066 \\
 \hline
 19,279
 \end{array}$$

## 1.4 Multiplication

1. ~~21~~  $21 \times 3 = 21 + 21 + 21 = 63$

$$\begin{array}{r}
 21 \\
 \times 3 \\
 \hline
 63
 \end{array}$$

2.  $51 \cdot 10 = 510$

$$\begin{array}{r}
 51 \\
 \times 10 \\
 \hline
 00 \\
 + 51 \\
 \hline
 510
 \end{array}$$

3.  $18 \cdot 15$

$$\begin{array}{r}
 \phantom{0}4 \\
 18 \\
 \times 15 \\
 \hline
 190 \\
 + 18 \\
 \hline
 270
 \end{array}$$

$$4. \quad 342 \cdot 23$$

$$\begin{array}{r} *342 \\ \times 23 \\ \hline 1026 \\ +684 \\ \hline 7,866 \end{array}$$

### 1.5 Division

$$1. \quad 48 \div 2 = 24$$

$$\begin{array}{r} \curvearrow 24 \\ 2 \overline{)48} \\ \underline{-4} \downarrow \\ 08 \\ \underline{-8} \\ 0 \end{array}$$

$$2. \quad 48 \div 4 = 12$$

$$\begin{array}{r} 12 \\ 4 \overline{)48} \\ \underline{-4} \\ 08 \\ \underline{-8} \\ 0 \end{array}$$

$$3. \quad 9,320 \div 10 = 932$$

$$\begin{array}{r} 932 \\ 10 \overline{)9320} \\ \underline{-90} \downarrow \\ 32 \\ \underline{30} \downarrow \\ 20 \end{array}$$

## 1.7 Exponents

1.  $3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3$

base

11  
3 ← exponent or power

3 ← base

2.  $4^6 = 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4$

3.  $3^2 = 3 \cdot 3 = 9$

4.  $5^2 = 5 \cdot 5 = 25$