Maths Problems

Here are 10 more maths problems for you to think about.

Use a paper and pencil to do your working out and recording.

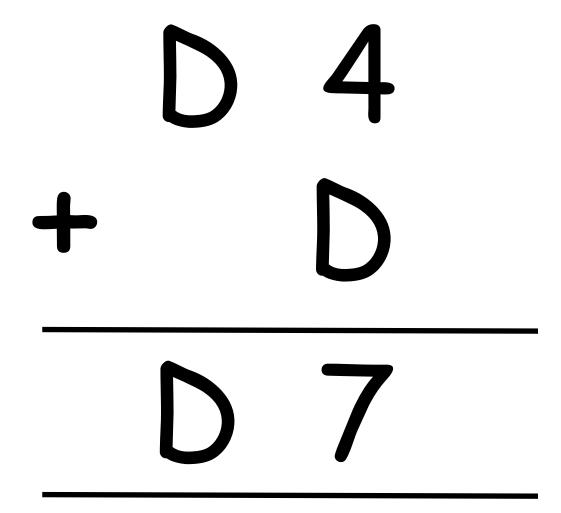Remember to work systematically!

I hope you enjoy them!

In each calculation, the letters represent digits.

No digit is repeated in any one exercise.

Find the value of each letter.

1.

$$\begin{array}{r} D\ 4 \\ +\quad D \\ \hline D\ 7 \end{array}$$

1.

$$\begin{array}{r} D\ 4 \\ +\ D \\ \hline D\ 7 \end{array}$$

Answer:

D = 3

2.

$$\begin{array}{r} K\ L \\ \times\quad 3 \\ \hline 1\ 2\ 6 \\ \hline \end{array}$$

2.

$$\begin{array}{r} K\ L \\ \times \quad 3 \\ \hline 1\ 2\ 6 \\ \hline \end{array}$$

Answers:

L = 2

K = 4

3.

$$
\begin{array}{r}
4\,S \\
\times \quad S \\
\hline
2\,2\,S \\
\hline
\end{array}
$$

3.

$$
\begin{array}{r}
4\,S \\
\times\ \ S \\
\hline
2\,2\,S \\
\hline
\end{array}
$$

Answer:

S = 5

4.

$$
\begin{array}{r}
\text{A T W} \\
\times \phantom{\text{A T}} \text{T} \\
\hline
6\ 4\ 8 \\
\hline
\end{array}
$$

4.

$$
\begin{array}{r}
A\ T\ W \\
\times\quad\quad T \\
\hline
6\ 4\ 8 \\
\hline
\end{array}
$$

Answer:

T = 2

W = 4

A = 3

5.

```
    B C
  X   4
  ─────
  1 4 4
  ─────
```

5.

$$\begin{array}{r} B\ C \\ \times \quad \ 4 \\ \hline 1\ 4\ 4 \\ \hline \end{array}$$

Answer:

C = 6
B = 3

6.

$$
\begin{array}{r}
Y\ Y \\
W\ W \\
+\ X\ X \\
\hline
W\ X\ Y
\end{array}
$$

6.

$$
\begin{array}{r}
Y\,Y \\
W\,W \\
+\ X\,X \\
\hline
W\,X\,Y
\end{array}
$$

Answers:

W = 1

X = 9

Y = 8

7.

$$
\begin{array}{ccc}
 & P & Q \\
 & P & Q \\
+ & Q & P \\
\hline
S & S & S \\
\hline
\end{array}
$$

7.

```
    P  Q
    P  Q
 +  Q  P
 ─────────
    S  S  S
 ─────────
```

Answers:

S = 1

P = 3

Q = 4

8.

$$
\begin{array}{r}
W\ T\ W \\
-\quad V\ W \\
\hline
W\ T \\
\hline
\end{array}
$$

8.

$$
\begin{array}{r}
W\ T\ W \\
-\quad V\ W \\
\hline
W\ T
\end{array}
$$

Answers:

W = 1

T = 0

V = 9

9.

$$
\begin{array}{r}
L M N \\
L M N \\
+ L M N \\
\hline
N N N \\
\hline
\end{array}
$$

9.

$$
\begin{array}{r}
L\,M\,N \\
L\,M\,N \\
+\;L\,M\,N \\
\hline
N\,N\,N
\end{array}
$$

Answers:

N = 5

L = 1

M = 8

10.

$$\begin{array}{r} A\ A\ B \\ +\ B\ B\ A \\ \hline B\ B\ B\ D \end{array}$$

10.

$$
\begin{array}{r}
A\,A\,B \\
+\ B\,B\,A \\
\hline
B\,B\,B\,D
\end{array}
$$

Answers:

B = 1

A = 9

D = 0

The book of nature is written in the language of mathematics.

Galileo