

Use the method we learnt yesterday to answer these questions

$$1,955 \times 31 =$$

$$1,234 \times 21 =$$

$$9,023 \times 55 =$$



Remember to include the remainders in your final answer.



Put the answers in ascending order.

RECALL

LO: Use knowledge of multiplying to solve problems

Some will even work explain why their method is the most efficient

Some will explain how they solved their answer.

Most will work in a systematic way.

All will use trial and error to solve the problem.

LEARNING HABIT RESILIENCE. |

$$\begin{array}{r}
 \quad 1 \quad a \quad b \quad c \quad d \quad e \\
 x \quad 3 \\
 \hline
 a \quad b \quad c \quad d \quad e \quad 1
 \end{array}$$

$$\begin{array}{r}
 \quad 2 \quad f \quad g \quad h \quad i \quad j \\
 x \quad 3 \\
 \hline
 f \quad g \quad h \quad i \quad j \quad 2
 \end{array}$$

Can you replace the letters with numbers?
 Is there only one solution in each case?

PROBLEM NUMBER 1

$$\begin{array}{r}
 1 \ a \ b \ c \ d \ e \\
 \times \\
 \hline
 a \ b \ c \ d \ e \ 1
 \end{array}$$

$$\begin{array}{r}
 2 \ f \ g \ h \ i \ j \\
 \times \\
 \hline
 f \ g \ h \ i \ j \ 2
 \end{array}$$

Can you replace the letters with numbers?
Is there only one solution in each case?

1 4 2 8 5 7

x 3

4 2 8 5 7 1

and

2 8 5 7 1 4

x 3

8 5 7 1 4 2

PROBLEM NUMBER 1
ANSWERS

This represents the multiplication of a 4-figure number by 3.

$$\begin{array}{r} \text{★} \text{★} \text{★} \text{★} \\ \times \quad \quad \quad 3 \\ \hline \text{★} \text{★} \text{★} \text{★} \text{★} \end{array}$$

The whole calculation uses each of the digits 0 – 9 once and once only.

The 4-figure number contains three consecutive numbers, which are not in order. The third digit is the sum of two of the consecutive numbers.

The first, third and fifth figures of the five-digit product are three consecutive numbers, again not in order. The second and fourth digits are also consecutive numbers.

Can you replace the stars in the calculation with figures?

$$\begin{array}{r} 5694 \\ \times \quad 3 \\ \hline 17082 \end{array}$$

PROBLEM NUMBER 2 ANSWERS

This represents the multiplication of a 4-figure number by 3.

A diagram representing a multiplication problem. It consists of three rows. The top row contains four teal stars. The second row contains an 'X' on the left and a '3' on the right, with a horizontal line underneath. The bottom row contains five teal stars. This represents the multiplication of a 4-digit number by 3, resulting in a 5-digit product.

The whole calculation uses each of the digits 0 – 9 once and once only.

The 4-figure number contains three consecutive numbers, which are not in order. The third digit is the sum of two of the consecutive numbers.

The first, third and fifth figures of the five-digit product are three consecutive numbers, again not in order. The second and fourth digits are also consecutive numbers.

Can you replace the stars in the calculation with figures?

PROBLEM NUMBER 2