

Answer the following questions

$$12 \times 4$$

$$120 \times 4$$

$$36 \times 6$$

$$360 \times 6$$



Remember that we always start with the units



Is there a pattern you notice?

RECALL

Complete the multiplication.

Use a place value chart to help you.

		2	1	0	2	
	x				4	

Split the numbers into the different place value columns.

Now answer $2,102 \times 8$ what is different between the two different questions?

GUIDED
PRACTICE

LO: multiplying 4 digits by 1 digit

Some will even answer questions out of context.

Some will find various questions when given the answer.

Most will answer word problems.

All will answer number problems.

LEARNING HABIT DISCIPLINE. |

Use the method you saw in guided practice to answer these following questions



$$3,126 \times 3 =$$

$$4,812 \times 2 =$$

$$1,502 \times 5 =$$



$$4,132 \times 6 =$$

$$3,071 \times 7 =$$

$$2,176 \times 5 =$$



$$7,432 \times 5 =$$

$$4,321 \times 6 =$$

$$5,678 \times 3 =$$



Remember that we have to carry the remainders



Put the answers in descending order.

**INTELLIGENT
PRACTICE.**

$$5,712 \times 3 = \text{?????}$$

Represent this questions with the practical resources on your table and find the correct answer.

Nassir earns £2,076 per week. How much would he earn in 6 weeks? Represent the problem with the practical resources on your table.

A football stadium holds 2,214 people. The stadium is full of 5 matches in a row. What was the attendance for all 5 matches?



Make sure you set out the problems correctly so you don't get confused.



Which question was the most difficult to answer? Can you explain why?

DIVE DEEPER 1

$$5,712 \times 3 = \text{?????}$$

Represent this questions with the practical resources on your table and find the correct answer.

17,136

Nassir earns £2,076 per week. How much would he earn in 6 weeks? Represent the problem with the practical resources on your table.

12,456

A football stadium holds 2,214 people. The stadium is full of 5 matches in a row. What was the attendance for all 5 matches?

11,070



Make sure you set out the problems correctly so you don't get confused.



Which question was the most difficult to answer? Can you explain why?

**DIVE DEEPER
1 ANSWERS**

Using the resources on your table how many multiplications of 4 digit by 1 digit numbers can you find that make the answer 12,660?

Using the resources on your table how many multiplications of 4 digit by 1 digit numbers can you find that make the answer 18,990?



Separate the number into the different place value columns and think what numbers can go into that particular number.



Write a step by step guide on how you answered your questions.

DIVE DEEPER 2

Using the resources on your table how many multiplications of 4 digit by 1 digit numbers can you find that make the answer 12,660?

$$6,330 \times 2 = 12,660$$

$$4,220 \times 3 = 12,660$$

$$2,110 \times 6 = 12,660$$

Using the resources on your table how many multiplications of 4 digit by 1 digit numbers can you find that make the answer 18,990?

$$9,495 \times 2 = 18,990$$

$$6,330 \times 3 = 18,990$$

$$3,165 \times 6 = 18,990$$

$$2,110 \times 9 = 18,990$$



Separate the number into the different place value columns and think what numbers can go into that particular number.



Write a step by step guide on how you answered your questions.

DIVE DEEPER 2 ANSWERS

Alex calculated $1,432 \times 4$

Here is her answer.

	Th	H	T	O
	1	4	3	2
\times				4
	4	16	12	8

$$1,432 \times 4 = 416,128$$

Can you explain what Alex has done wrong?

Can you work out the missing numbers using the clues?

$$\begin{array}{r} \square \square \square \square \\ \times 5 \\ \hline \square \square \square \square \square \end{array}$$

- The 4 digits being multiplied by 5 are consecutive numbers.
- The first 2 digits of the product are the same.
- The fourth and fifth digits of the answer add to make the third.



Partition the first problem to help you.



Explain how you got the answers for the second question?

DIVE DEEPER 3

Alex calculated $1,432 \times 4$

Here is her answer.

	Th	H	T	O
	1	4	3	2
\times				4
	4	16	12	8

$$1,432 \times 4 = 416,128$$

Can you explain what Alex has done wrong?

Alex has not exchanged when she has got 10 or more in the tens and hundreds columns.

$$2,345 \times 5 = 11,725$$

Can you work out the missing numbers using the clues?

$$\begin{array}{r} \square \square \square \square \\ \times 5 \\ \hline \square \square \square \square \square \\ \hline \end{array}$$

- The 4 digits being multiplied by 5 are consecutive numbers.
- The first 2 digits of the product are the same.
- The fourth and fifth digits of the answer add to make the third.



Partition the first problem to help you.



Explain how you got the answers for the second question?

DIVE DEEPER 3 ANSWERS