## White Year 5-Spring-Block I

## Rose

 Maths
## Multiplication \& Division

Alex calculated I, $432 \times 4$ Here is her answer.


$$
\mathrm{I}, 432 \times 4=4 \mathrm{I} 6, \mathrm{I} 28
$$

Can you explain what Alex has done wrong?

Can you work out the missing numbers using the clues?


- 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.

Eva says,


What mistake has Eva made?
Explain your answer.

## Amir hasn't finished his calculation. Complete the

 missing information and record the calculation with an answer.

Farmer Ron has a field that measures 53 m long and 25 m wide.

Farmer Annie has a field that measures 52 m long and 26 m wide.

Dora thinks that they will have the same area because the numbers have only changed by one digit each.

Do you agree? Prove it.

## Tommy says,



Do you agree?
Explain your answer.

## Amir has multiplied 47 by 36

Alex says,

|  | 4 | 7 |
| :--- | :--- | :--- | :--- |
| $\times$ | 3 | 6 |
| 2 | 8 | 2 |
| 1 | 4 | 1 |
| 3 | 2 | 3 |

$$
22 \times 111=2442
$$

```
23\timesIII = 2553
```

```
24\timesI|I = 2664
```

What do you think the answer to $25 \times$ III will be?
What do you notice?
Does this always work?

Pencils come in boxes of 64 A school bought 270 boxes. Rulers come in packs of 46 A school bought 720 packs.


How many more rulers were ordered than pencils?



Here are examples of Dexter's maths work.

|  |  |  | 9 | 8 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\times$ |  |  |  | 7 | 6 |
|  |  | 5 | $5^{9}$ | $4^{2}$ | 2 |
|  |  | 6 | $6^{9}$ | $4^{0}$ | 9 |
|  | 1 | $1^{2}$ | 8 | 3 | 1 |


|  |  |  | 3 | 2 | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\times$ |  |  |  | 7 | 8 |
|  |  | 2 | 5 | 9 | 2 |
|  |  | 2 | 6 | 8 | 0 |
|  | 2 | 1 | $2^{2}$ | 3 | 2 |
|  |  | 3 | 7 | 2 |  |

He has made a mistake in each question.
Can you spot it and explain why it's wrong?
Correct each calculation.

## Spot the Mistakes

Can you spot and correct the errors in the calculation?

|  |  | 2 | 5 | 3 | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\times$ |  |  |  | 2 | 3 |
|  |  | $1^{7}$ | 5 | 9 | 2 |
|  |  | 5 | 0 | 6 | 8 |
|  | 1 | 2 | 6 | 6 | 0 |

Teddy has spilt some paint on his calculation.


What are the missing digits?
What do you notice?

## Jack is calculating $2,240 \div 7$

He says you can't do it because 7 is larger than all of the digits in the number.

Do you agree with Jack?
Explain your answer.

## Spot the Mistake

Explain and correct the working.


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  | 3 | 1 | 0 | 1 |
| 3 | 9 | 4 | 1 | 4 |
|  |  |  |  |  |

I am thinking of a 3-digit number.
When it is divided by 9 , the remainder is 3

When it is divided by 2 , the remainder is I

When it is divided by 5 , the remainder is 4

What is my number?

## Always, Sometimes, Never?

A three-digit number made of consecutive descending digits divided by the next descending digit always has a remainder of I

$$
765 \div 4=|9| \text { remainder } \mid
$$

How many possible examples can you find?

