## FLUENCY 1

Use the place value chart to complete the multiplication.


Start with the $\qquad$ to exchange to $\qquad$ if needed. If there are $\qquad$ or more ones, exchange for a $\qquad$ -.
If there are $\qquad$ or more tens, exchange for a $\qquad$ -

Use place value counters to complete these calculations:



Match each calculation with the correct answer.


$$
595
$$

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## FLUENCY 3

13 trains are travelling to Birmingham and 15 trains are on their way to York.

Each train is 8 carriages long.

How many carriages are there all together?


## FLUENCY 4

Derry School gets 56 cartons of milk delivered each school day.

How many bottles would they need to order for one week at school?

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## REASONING 1

Jane has been learning to multiply 2-digits by 1-digit.


Do you agree with her? Explain why.

Which is the odd one out?

|  | 5 | 6 |
| :---: | :---: | :---: |
| $\times$ |  | 4 |
| 2 | 2 | 4 |

2

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

2

|  | 3 | 8 |
| :---: | :---: | :---: |
| $\times$ |  | 9 |
| 2 | 7 | 2 |

7

Convince me!

## REASONING 2

## REASONING 3

Always, Sometimes or Never?
"There is one exchange when multiplying
a 2-digit number by a 1-digit number."

Explain your reasoning!

REASONING 4
Find the missing numbers.

|  | 3 | 2 |
| :---: | :---: | :---: |
| $\times$ |  |  |
|  | 9 | 6 |


|  |  | 3 |
| :---: | :---: | :---: |
| $\times$ |  | 4 |
| 3 | 3 | 2 |

Explain how you found them.
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## PROBLEM SOLVING 1

Darcey and Asha have created calculations that have equal products.


The digits in Darcey's 2-digit and 1-digit number are all different to the digits Asha has used. Darcey's 2 -digit and $\mathbf{1}$-digit numbers have 2 odd digits and Asha's have 2 even digits.

Darcey's 2 digit-number is double that of Asha's.
Asha's 1-digit number is double that of Darcey's.

What are their missing numbers?
Is there more than one possibility?
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