Use mental strategies to multiply by 5, 20, 6, 4 and 8.

$23 \times 10=230 \quad$| How can we use $23 \times 10=230$ |
| :--- |
| to find the answer to $23 \times 5 ?$ |

$23 \times 5=115$
$23 \times 20=460$
What do we already know? How does that help?

We can double the answer to $23 \times 10$.
$23 \times 19=437$
 What do we know? How does that help?

We can subtract 23 from the answer to $23 \times 20$.

Use mental strategies to multiply by 5, 20, 6, 4 and 8.


So one way to multiply a number by 6 is to multiply by 3 , and then by 2 . We are using a pair of factors of 6 .

Use mental strategies to multiply by $5,20,6,4$ and 8.
To multiply by 4 double twice To find $23 \times 4$ double 23, then double the answer.
Double 23 is 46.
We can use repeated doubling to multiply by 4 and by 8 !
Try 23 x 4, then $13 \times 8$

Double 46 is 92 .
$23 \times 4=92$

To multiply by 8 double three times
To find $13 \times 8$. Double 13, then double the answer twice more!

Double 13 is 26.
Doble 26 is 52.
Double 52 is 104.
$13 \times 8=104$

