

Riddle reasoning



- What whole number is each person thinking of?

It is between 20 and 50.

It is greater than 37.

It is less than 42.

$39 > \square$ and $\square > 25$

38

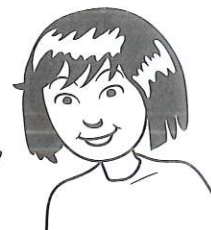


It is between 100 and 200.

It is less than 198.

It is greater than 192.

$180 < \square$ and $\square < 194$



It is between 500 and 700.

It is less than 650.

It is greater than 610.

$550 < \square < 612$



It is between 700 and 800.

$\square < 723$

It is greater than 719.

$721 < \square < 740$



$\square < 250$

$\square > 230$

$240 < \square$

$248 < \square < 252$



$\square < 880$

$\square > 840$

$878 < \square$

$894 > \square$



$\square < 650$

$\square > 600$

$634 < \square < 643$

$636 > \square > 624$



$\square < 532$

$530 > \square$

$525 < \square < 555$

$557 > \square > 528$



NOW TRY THIS!



- Make up some more riddles of your own for a partner to solve.

Teachers' note At the start of the lesson introduce the 'greater than' and 'less than' signs and show the different ways that a number range can be represented, for example using words or the notation $\square > 157$ and $\square < 159$ or $640 < \square < 650$ or $56 > \square > 54$. Ensure that the children understand that a number range can refer to only one whole number or to a set of possible whole numbers.