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The whole is 12 . There are three parts/groups each with a value of 4
12 divided by three is equal to four. One third of 12 is equal to four.
 inverse relationship of multiplication and division. Pupils should be familiar with
considering rows and columns. Part-whole language may be used alongside. Concrete and pictorial arrays demonstrate the commutativity of multiplication and


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| $\begin{gathered} \nabla=\square \div Z I \\ \Delta \nabla+\angle \varepsilon=\square \\ \varepsilon I+S Z=8 \varepsilon \end{gathered}$ <br> :suo!!!!sod łuәдәџ! <br> u! sıəqunu bu!̣ss!u pue sjoquks <br>  <br>  pəsn s! ،0ㅣ ןenbe s!, əseıyd əપノ |
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| Number bond knowledge |
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| Pupils should be increasingly fluent in |
| number bond recall for all numbers to 20 . |
| Make use of transitions and Maths |
| Meetings to develop this. |
| $\qquad$17 <br> 17$=12+5$ |
| $\qquad 17=10+7$ |


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numbered divisions. Pupils will have experienced this most through adding tens then ones as shown. The use of number lines is extended during Number lines can be used to represent and cor chating, number lines may act as a jotting of the steps of a mental calculation and may begin 'empty' i.e. not have
the number system. When calcula Number lines
regrouped for one ten One ten is regrouped for
ten ones. Ten ones is
$\uparrow$

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ones, one hundred is equal to ten tens and so
Dienes equipment
An important resource for


## 

$\square \square$

234 is two hundreds, three tens and four
ones. I can represent subtracting 20 by
with 2-and 3 -digit integers
of regrouping - one ten is equal to ten

 Multiplication, division and fractions of $\square$ is equal to four.

subtract one
six. The missing part is
The whole is ten. 1
subtract one part of ио!̣юеи

By moving the manipulatives the model
represents subtraction. 12 equal to ten.
part is six and one part
is four. Six plus four is
equal to ten.
whole and two or more parts
the relationship between numbers in al
A part-whole model is used to represen

