## YEAR 3

Multiplication $(2,5,10,3,4,8)$



## Mental methods

Instantly recall the multiplication tables for
the $2,5,10,3,4$ and 8 times table by the end
of year 3 .
X10 and $\times 100$ :
$10 \times 5=50$
$10 \times 34=340$
$100 \times 3=300$
Using known facts and place value:
If $2 \times 3=6$
Then $20 \times 3=60 ; 2 \times 30=60 ; 20 \times 30=600$
Doubling:
Recall doubles of all numbers to 20 , doubles of
multiples of 5 to 100 and doubles of multiples
of 100 to 500
$24 \times 2=48$
$20 \times 2=40$
$4 \times 2=8$
$40+8=48$

Doubling again ( $x 4$ and $x 8$ )
Use doubling to connect 2, 4 and 8
multiplication tables
$7 \times 4=28$
$7 \times 2=14$
$14 \times 2=28$
$7 \times 8=56$
$7 \times 2=14$
$14 \times 2=28$
$28 \times 2=56$

Partitioning:
No exchanging
$32 \times 3$
$30 \times 3=90$
$2 \times 3=6$
$90+6=96$

Continue to understand the inverse relationship between multiplication and division

Write the related number sentences

$$
\begin{array}{ll}
6 \times 3=18 & 3 \times 6=18 \\
18 \div 3=6 & 18 \div 6=3
\end{array}
$$

Use this knowledge to solve missing number problems involving multiplication.
$3 \times$ $=15$
$24 \div$ $\qquad$ $=8$

$$
-4=5
$$

