#### **Recall of facts**

Learn and recall multiplication and division facts up to 12 x 12 and use place value to derive related facts

6x7 = 42 70x6 = 420  $42 \div 6 = 7$   $420 \div 6 = 7$  Divide 63 by 7 350 divided by 5

How many sixes in 54?

108÷12 – what is the quotient?

Continue to use the inverse relationship between x and ÷

 $8 \times 7 = 56$   $56 = 7 \times 8$  $56 \div 8 = 7$   $8 = 56 \div 7$ 

#### **Relate division and fractions**

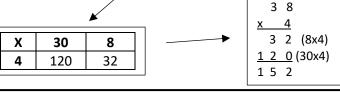
 $\frac{1}{8}$  of 56 is the same as 56÷8

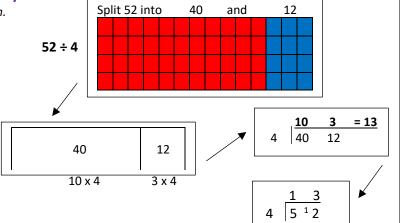
 $\underline{3}$  of 56 is the same as (56÷7) x 3

56						
1/7	1/7	1/7	1/7	1/7	1/7	1/7
8	8	8	8	8	8	8

# Multiplication and division can be represented in different ways...

These structures show the relationship between multiplication and division.





# Always Sometimes Never?

38 x 4

Numbers in the nine times table have digits that add up to 9

# Year 4 Multiplication and Division (including fractions)

#### **Prove it**

Multiples of 6 are also multiples of 2 and of 3

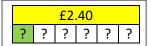
# Partition numbers for division by using factors

161 ÷ 7 - partition 159 into 140 and 21

Use times tables knowledge to know that 140 is divisible by  $7 - 20 \times 7$ 21 is divisible by  $7 - 3 \times 7$ 

### **Calculating with measures**

6 pens cost £2.40 How much does each pen cost?



Using knowledge of times tables, I know that  $240 \div 6 = 40$  linked to  $24 \div 6$ 

Therefore £2.40  $\div$  6 = 40p for each pen.

Use the inverse operation to check  $40p \times 6 = £2.40$ 

How many rectangles can you draw with an area of 36cm<sup>2</sup>?

Mark is doing a sponsored silence. He says, "If I am silent for five hours at 10p per minute I will raise 50 pounds." Is he correct? Prove it

Use a variety of words

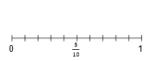
multiple, multiply, array, tables, times, product, twice, double, repeated addition, factor divide, divisible by, divided into, quotient, divisor,

4

remainder

## Fractions and decimals

Counting in tenths  $\frac{1}{2}$  0.1 and hundredths  $\frac{1}{2}$  0.01





## Equivalence

of a number. Divide the whole number into 10 equal
 parts then x by 3

3

 $10 \ \text{written as a decimal} - 0.3$ 

 $\mathsf{Mark}\,\underline{3}\,\mathsf{on}\,\mathsf{a}\,\mathsf{number}\,\mathsf{line}$ 



10 of a shape



