# Division facts...

Your teacher doesn't ask you to learn your times tables just to be mean. They are the fastest way to work out and answer lots of division questions.
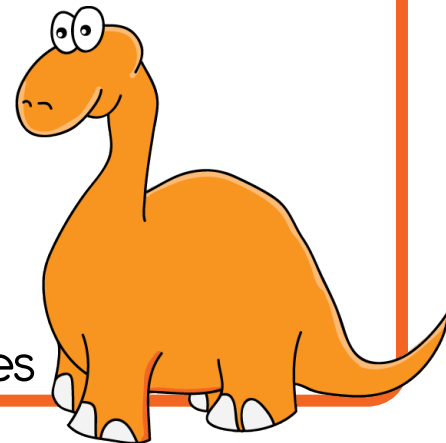
$$56 \div 8 = ?$$

**This can be worked out by knowing...**

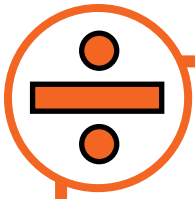$$? \times 8 = 56$$

$$7 \times 8 = 56$$

Remember than division and multiplication are **inverse** operations.

Division
Maths Calculation Strategies

# Halving...

The ability to halve (divide by 2 or ÷ 2) numbers is useful for division.

Use partitioning to help halve larger numbers...

**half of 364 is?**

$$300 + 60 + 4$$
$$150 + 30 + 2 = 182$$
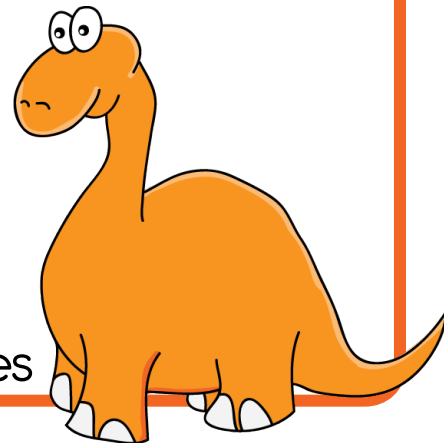
**You can also...**

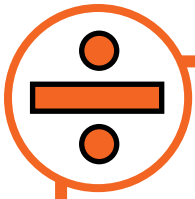÷ 4 by halving twice

104 ÷ 4 = 52 ÷ 2 = 26

÷ 8 by halving three times

104 ÷ 8 = 52 ÷ 4 = 26 ÷ 2 = 13

**Division**
Maths Calculation Strategies

# Dividing by multiples of 10...

To use this strategy you need to have a clear understanding of place value.

The numbers on each row are found by dividing the number above them by 10. If you skip a row, the numbers are divided by 100.
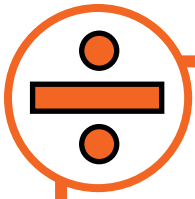
| 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 9000 |
|------|------|------|------|------|------|------|------|------|
| 100  | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  |
| 10   | 20   | 30   | 40   | 50   | 60   | 70   | 80   | 90   |
| 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |

**What would the answer be?** $920 \div 10 =$

Division
Maths Calculation Strategies
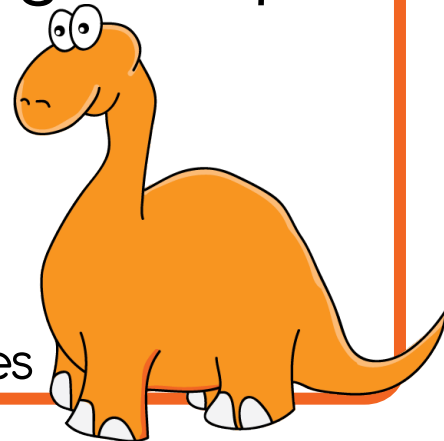
# Fractions...

Understanding fractions are key to solving division problems.
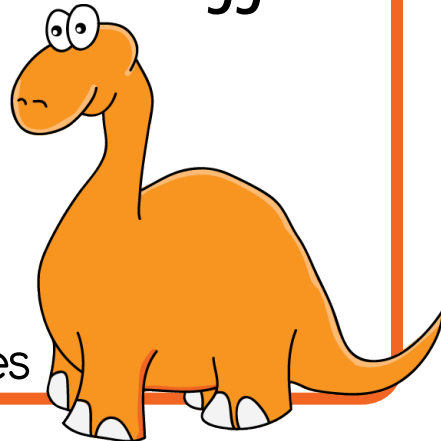
£60 boots now 1/2 price
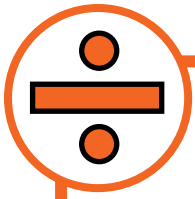
How much for 1 pair of boots?

1/2 of £60 = £30

60 ÷ 2

What would the price of the boots be with 1/3 off £60?

**How would you work it out?**

Division

Maths Calculation Strategies

# Partitioning...

When dividing a two-digit number, you can make it easier to solve by splitting the number into tens and ones.
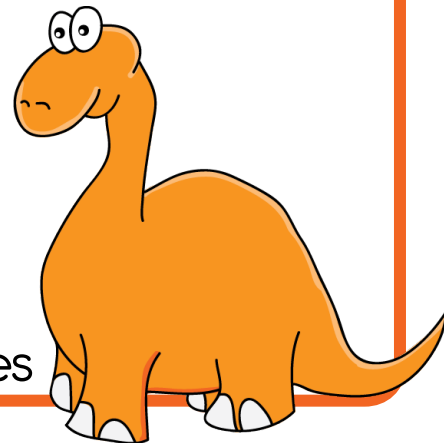
$$92 \div 4 =$$
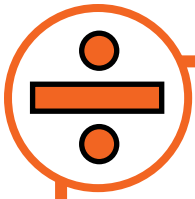
$80 + 12 \div 4$

$80 \div 4 = 20$

$12 \div 4 = 3$

**Now it's time to add...**
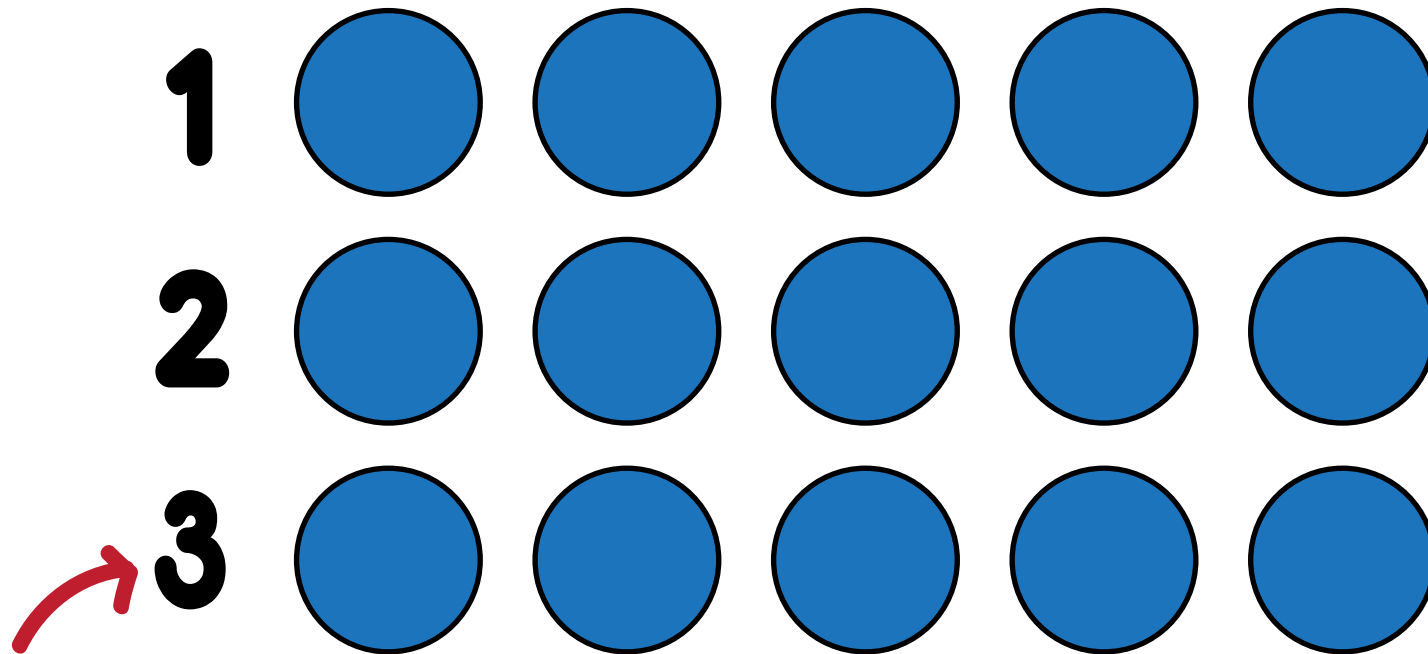
$20 + 3 = 23$

Division
Maths Calculation Strategies

# Arrays...

These are a great way of helping to visualise a division question.

$$15 \div 5 =$$

**This can be shown as...**

1 ⬤⬤⬤⬤⬤
2 ⬤⬤⬤⬤⬤
3 ⬤⬤⬤⬤⬤

$$15 \div 5 = 3$$

**Division**
Maths Calculation Strategies