

Division - written methods

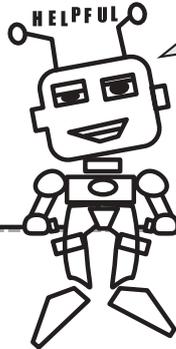
1 Sensible answers to mental problems



Example

8 cakes fit into a cake box.
 Mel has 19 cakes.
 How many cake boxes will Mel need?

 There are two 8s in 19 and three over,
 so Mel will need three boxes.



You need a box for the remainder.

Work out each answer in your head:

- 1 An egg box holds 6 eggs.
 Stella collected 26 eggs.
 How many egg boxes are needed to take all the eggs?
- 2 An egg box holds 6 eggs.
 Carl collected 58 eggs.
 How many egg boxes does Carl need for these eggs?
- 3 A taxi can take up to 5 people.
 Twenty-two people need to be taken to the station.
- 4 There are 7 players in a basketball team.
 Thirty children want to play basketball.
 How many complete teams can be made?
- 5 A box holds 10 ping-pong balls.
 I have 72 ping-pong balls.
 How many boxes can I fill?

2 Review of division



- 1 $147 \div 5$ 2 $214 \div 8$ 3 $473 \div 9$

Chunking method?
 Standard written method?
 You decide.

- 4 Share 97 sweets among 7 children.
- 5 How many 9s are there in 376?
- 6 Ellen bought 6 pairs of jeans.
 They were all the same price. She paid £162.
 What did one pair of jeans cost?
- 7 8 ping-pong balls are packed in one box.
 How many boxes could you fill with 300 ping-pong balls?
 How many would you have left over?



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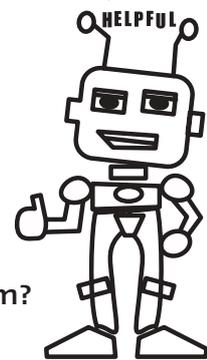
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Problems



- 1 An egg tray holds 36 eggs.
Today our hens laid 276 eggs.
How many egg trays are needed to take all the eggs?
- 2 A return train ticket to London costs £39.80.
Dad has saved £250.
How many tickets to London could he buy?
- 3 193 pupils are going on a trip to Alton Towers.
A coach will take 53 pupils.
How many coaches will be needed?
- 4 266 children want to play basketball.
There are 7 players in a basketball team.
How many teams will there be, if all children are put in a team?
- 5 Seventeen children are going on a school ski trip.
The total cost for all seventeen children is £10 965.
Each child pays the same amount.
How much does each child pay?

In your head? On paper? With a calculator? You decide for each question.



STAR CHALLENGE

6

Mental challenges



Work out each answer in your head:

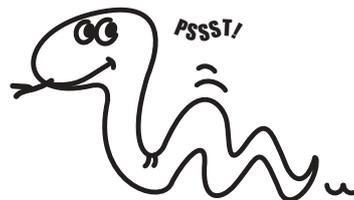
10–12 correct 1 star

- | | | | | | |
|---|------------------|---|------------------|---|-------------------|
| 1 | $£4.80 \div 2 =$ | 4 | $£9.20 \div 2 =$ | 7 | $£1.23 \div 3 =$ |
| 2 | $£8.20 \div 4 =$ | 5 | $£4.40 \div 4 =$ | 8 | $£10.50 \div 2 =$ |
| 3 | $£6.30 \div 3 =$ | 6 | $£0.72 \div 3 =$ | | |
- 9 4 packets of sugar cost £1.24.
What is the cost of one packet of sugar?
 - 10 The cost for 3 children to go skating is £8.70.
What is the cost for one child?
 - 11 Share £26 equally among four children.
 - 12 Four birthday cakes cost £30.
What is the cost of one birthday cake?

Division – written methods**Choose the method**

All correct 1 star

In your head? On paper?
With a calculator? You decide
for each question.



- 1 Peter goes to the fairground.
His favourite ride is *The Demon's Ride* at £2.35 each trip.
He has saved up £11.85.
How many goes could he have on *The Demon's Ride*?
- 2 Femi's uncle owns *The Demon's Ride*.
He lets Femi have six rides for £7.50.
How much is that for one ride?
- 3 Uncle Billy is a guard on the railway.
Last week he travelled from London to Holyhead and back four times.
He worked out that he had travelled 2144 miles altogether.
Calculate the distance from London to Holyhead.
- 4 Mayur is saving up to take his family to Paris for a special celebration.
It will cost £278 for each person.
He has saved £1750.
How many of the family can he take to Paris for this amount?
- 5 Jenny makes cakes for parties.
She has made 270 cakes.
16 cakes go in each cake box.
How many cake boxes will she need?