

Mild:

- 1) 455 divided by 5
- 2) 3562 divided by 2

Use these multiples to help you work out the calculations

15, 30, 45, 60, 75, 90, 105

- 3) 3843 divided by 15
- 4) 2948 divided by 15
- 5) 4853 divided by 15

Hot:

- 1) 6036 divided by 12
- 2) 3614 divided by 14
- 3) A limousine can fit 15 people inside. If the booking is for 234 people, how many limousines will they need to book?
- 4) Sarah is solving the question 4578 divided by 15. She gets the answer 304 r 18. Find the correct answer and explain the mistake she has made.

Flamin' Hot:

- 1) 2358 people applied to be in a TV audience. 14 people were invited to attend each show. How many shows did they make with full audiences and how many people were not invited?
- 2) A sunflower grows to a height of 82cm in 6 weeks. On average, how many cm does it grow each week?
- 3) 82 children turn up for a 6-a-side football tournament. How many teams can be made? Teams can have substitutes.
- 4) What do you notice about questions 3 and 4? What is the same? What is different?
- 5) Can you find the smallest number that can be added to or subtracted from 87.6 to make it exactly divisible by 8 or 7 or 18?
- 6) Which one is the odd one out? Explain your answer.
512 divided by 16
672 divided by 21
- 7) Broken calculation. 'The keys 7 and 5 are broken.' How can I use my calculator to work out: 160 divided by 5 and 72 divided by 4

8) True or false. 'It is impossible to divide a number by 3 more than twice without leaving a remainder.' Explain using examples.

Reasoning Rex

Explain to Rex how to use the bus stop method for division.