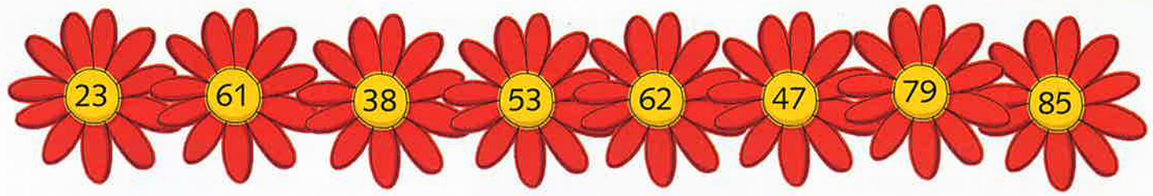
vision ThHTO ÷ O with a decimal remainder

Use the formal written method of short division to calculate ThHTO ÷ O (decimal remainder)
Estimate and check the answer to a calculation

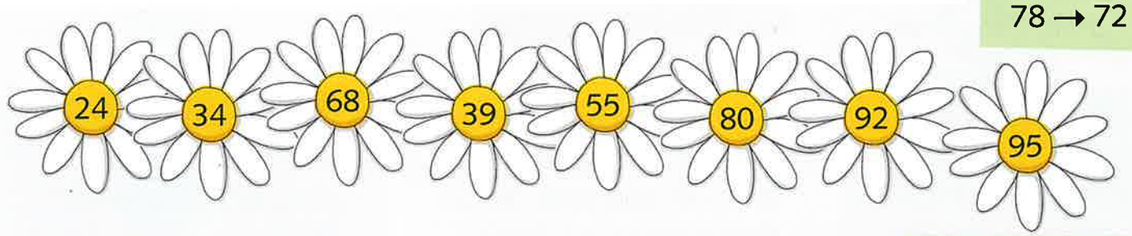
Example
16 → 14

1 Find the multiple of 7 that comes immediately before these numbers.



Example
78 → 72

2 Find the multiple of 9 that comes immediately before these numbers.

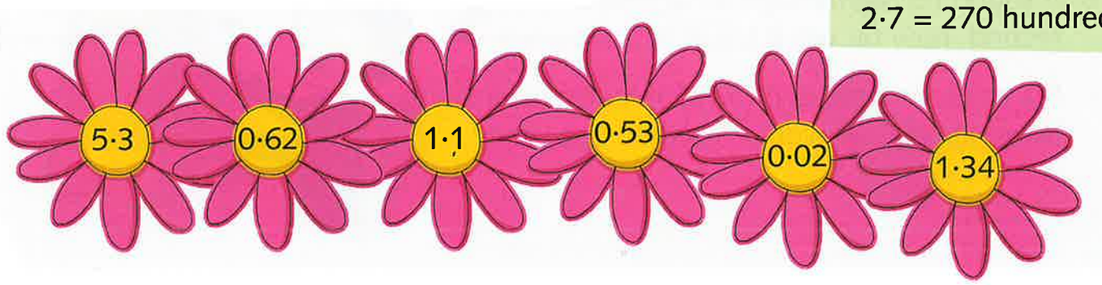


Example
2·7 = 27 tenths

3 Write these numbers as tenths.

Example
2·7 = 270 hundredths

4 Write these numbers as hundredths.



Challenge 2

1 For each division calculation, write your estimate then use the formal written method of short division to work out the answer. Record any remainders as a decimal.

a	2398 ÷ 4	b	1647 ÷ 5	c	5261 ÷ 6
d	4961 ÷ 5	e	6275 ÷ 4	f	1846 ÷ 4
g	4388 ÷ 4	h	4375 ÷ 6	i	7373 ÷ 5
j	4632 ÷ 8	k	2345 ÷ 6	l	5396 ÷ 8

Example

2376 ÷ 5 → 2500 ÷ 5 = 500

Th	H	T	O	
	4	7	5	· 2
5 | 2	3	$^{3}7$	$^{2}6$	· $^{1}0$

2 What number am I?

a When I am divided by 6 my answer is 386.

b When I am divided by 7 my answer is 568

c My answer is 953 when I am divided by 4.

Challenge 3

Find the answers to these problems.

a A group of 5 friends pay £2357 between them for their summer holiday. If each person pays the same amount, how much does each one pay?

b A plane takes approximately 7 hours to complete a journey of 5572 km from London to New York. Approximately how many kilometres per hour does it travel?

c James travels to Spain in his car. He uses 1435 litres of fuel on his trip. If he is away for 8 days, how much fuel does he use on average per day?

d Sarah pays £2142 for an 8-day holiday. Jonathan pays £1067 for a 4-day holiday. Who pays more per day for their holiday? How much more?