Multiplication using the expanded written method

Use the expanded written method to calculate TO × O

(85) (34) (92) (17) (43) (36)

(21)

(74) (63) (78) (56) (49) (71) (29) (65)
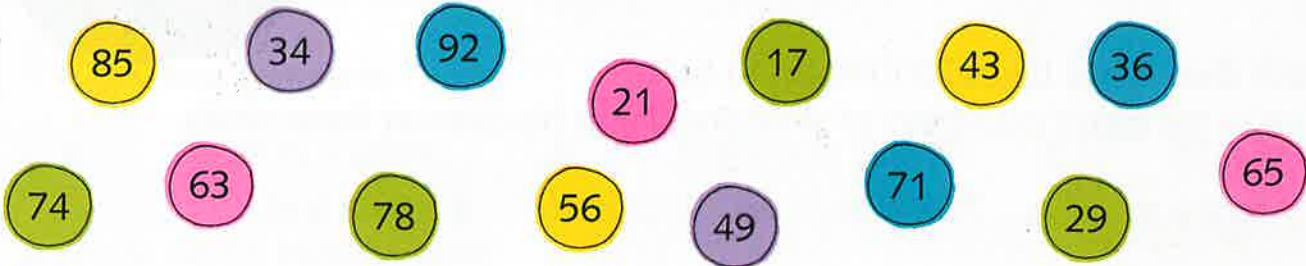
Challenge 1

Choose ten numbers from the circles above. Write the multiples of 10 that each number comes between.

Example

70 ← 74 → 80

Challenge 2

Choose six numbers from the circles above. Multiply two numbers by 3, two numbers by 4 and two numbers by 8. Estimate the answer first, then use the expanded written method to work out the answer.

Example

```
H  T  O
   6  3
×     8
   2  4   ( 3 × 8)
4  8  0   (60 × 8)
5  0  4
   1
```

Challenge 3

Multiply the two numbers alongside each other in the bottom row together to find the number above in the second row. Multiply the two numbers in the second row together to find the number at the top. Calculate the answers mentally for as long as you are able, then use the expanded written method.

Example

```
      90
   6  ×  15
2  ×  3  ×  5
```

a

```
    □
  □   □
3   4   2
```

b

```
    □
  □   □
8   4   2
```

c

```
    □
  □   □
4   4   2
```

d

```
    □
  □   □
9   2   4
```

40