

Lesson 12 **NUMBER****Place-value investigation and review – biggest and smallest numbers**

WHAT THIS LESSON TEACHES

The value of a digit depends on which column it sits in; the hundreds column is worth the most, so the digit there matters most for how big the number is.

→ With 3, 7 and 5 the biggest number is 753.

→ From 2, 6 and 9 the smallest is 269.

MODEL THIS ON THE BOARD

BIGGEST AND SMALLEST WITH 3, 7 AND 5

- 1 Look at the three digits 3, 7 and 5.
- 2 To make the biggest number place the largest digit **7** in the hundreds column.
- 3 Next place **5** in the tens column and **3** in the units column.
- 4 To make the smallest number place the smallest digit **3** in the hundreds column.
- 5 Then place **5** in the tens and **7** in the units.

DISCUSSION STARTER

REFLECT When you move a digit left or right, how does its value change?

ANSWER KEY

a) 962

b) 307

c) 541

Q1: 841 and 148

Q2: 863 and 368

Q3: 972 and 279

Q4: 640 and 406

a) **Always** — Hundreds is worth most so the largest digit must sit there.

b) **Sometimes** — This is true only when the smallest digit is not zero.

c) **Never** — A leading zero would make it a two-digit number instead.

d) **Always** — That order always puts the greatest value in each column.

EXTENSION SHEET · STRETCH ANSWERS

Investigation: Shuffle the digits — open-ended; scan pupils' working for valid solution paths rather than a single answer.