

Dividing by single-digit divisors with remainders

WHAT THIS LESSON TEACHES

When you divide by a single-digit divisor there is a quotient and sometimes a remainder.

→ 50 divided by 8 gives quotient 6 and remainder 2.

→ 425 divided by 3 gives quotient 141 and remainder 2.

MODEL THIS ON THE BOARD

BUS STOP LAYOUT FOR 425 DIVIDED BY 3

- 1 Draw the bus-stop and write 3 outside and 425 inside.
- 2 Divide 4 by 3 to get 1 with remainder 1, write 1 above.
- 3 Bring down 2 to make 12, divide 12 by 3 to get 4.
- 4 Bring down 5 to make 5, divide 5 by 3 to get 1 with remainder 2.

ANSWER KEY

a) 6 r 2

b) 117 r 4

c) 127 r 3

Q1: 13 full buses, 6 left over

Q2: 53 r 6

Q3: 133 per team, 6 remain

Q4: 87 r 4

a) **Never** — The remainder can be zero when it divides exactly.

b) **Always** — By definition the remainder must be less than the divisor.

c) **Always** — That is exactly what the quotient means in this division.

d) **Always** — This always confirms if the answer is correct.

EXTENSION SHEET · STRETCH ANSWERS

S1: 129

S2: 196