SMART EXAM RESOURCES
STAGE 9 MATHEMATICS
TOPIC QUESTIONS
TOPIC: TERMINATING AND RECURRING DECIMALS
SET-2

1.Does 2/3 have a terminating or recurring decimal equivalent?

MARK SCHEME:

Denominator: 3 (not just 2's or 5's).
Since denominator contains 3, it has a **recurring** decimal.
Decimal: 2/3 = 0.666…

Answer: **Recurring** (0.666…).

2. Does 5/6 have a terminating or recurring decimal equivalent?

MARK SCHEME:

Denominator: 6 = 2 × 3 (contains 3).
Since denominator includes 3, it has a **recurring** decimal.
Decimal: 5/6 = 0.8333…

Answer: **Recurring** (0.833…).

3. Does 7/9 have a terminating or recurring decimal equivalent?

MARK SCHEME:

Denominator: $9 = 3^2$ (not just 2's or 5's).
Since denominator contains 3, it has a **recurring** decimal.
Decimal: $7/9 = 0.777\ldots$

Answer: **Recurring** (0.777…).

4. Does 4/11 have a terminating or recurring decimal equivalent?

MARK SCHEME:

Denominator: 11 (not just 2's or 5's).
Since denominator contains 11, it has a **recurring** decimal.
Decimal: 4/11 = 0.363636…

Answer: **Recurring** (0.363636…).

5. Does 1/7 have a terminating or recurring decimal equivalent?

MARK SCHEME:

Denominator: 7 (not just 2's or 5's).
Since denominator contains 7, it has a **recurring** decimal. Decimal: 1/7 = 0.142857142857...

Answer: **Recurring** (0.142857...).