1.Does 3/8 have a terminating or recurring decimal equivalent?

Prime factorize denominator: $8 = 2^3$ (only factors of 2).
Since denominator consists only of 2's, it has a **terminating** decimal.
Decimal: 3/8 = 0.375.

Answer: **Terminating** (0.375).

2.Does 7/25 have a terminating or recurring decimal equivalent?

MARK SCHEME:

Prime factorize denominator: 25 = 5^2 (only factors of 5).
Since denominator consists only of 5's, it has a **terminating** decimal.
Decimal: 7/25 = 0.28.

Answer: **Terminating** (0.28).

3. Does 9/40 have a terminating or recurring decimal equivalent?

MARK SCHEME:

Prime factorize denominator: $40 = 2^3 \times 5^1$ (only factors of 2 and 5).
Since denominator consists only of 2's and 5's, it has a **terminating** decimal.
Decimal: 9/40 = 0.225.

Answer: **Terminating** (0.225).

4. Does 11/50 have a terminating or recurring decimal equivalent?

Prime factorize denominator: $50 = 2^1 \times 5^2$ (only factors of 2 and 5).
Since denominator consists only of 2's and 5's, it has a **terminating** decimal.
Decimal: 11/50 = 0.22.

Answer: **Terminating** (0.22).

5. Does 125/200 have a terminating or recurring decimal equivalent?

Simplify: 125/200 = 5/8.
Prime factorize denominator: $8 = 2^3$ (only factors of 2).
Since denominator consists only of 2's, it has a **terminating** decimal.
Decimal: 5/8 = 0.625.

Answer: **Terminating** (0.625).