

## Rational and Irrational numbers

### ➤ MC Question

10. Simplify  $(\sqrt{5} + 1)(2 - \sqrt{5})$ .

A.  $3 - \sqrt{5}$

B.  $3 + \sqrt{5}$

C.  $\sqrt{5} - 3$

D.  $3\sqrt{5} + 2$

11. Which of the following is rational?

A.  $\pi$

B. 1.353265354...

C.  $\sqrt{19 + 20}$

D.  $(4\sqrt{5})^2 + 8$

12.  $2.\dot{5} - 1.7\dot{5} =$

A.  $\frac{110}{73}$

B.  $\frac{115}{79}$

C.  $\frac{119}{82}$

D.  $\frac{4}{5}$

### ➤ Short Question

1. Express  $4.\dot{3}$  as a fraction.

2. Determine whether each of the following is a rational number.

(a)  $2.7\dot{5}$

(b)  $-275$

(c)  $\frac{85}{3}$

(d)  $\sqrt{63}$