UNIselect Online
Maths Sample Questions

UNIselect is an online test that assesses the literacy and numeracy skills of applicants to university pathway programs.

The following are examples of some types of questions that might be found in the UNIselect Maths test. Note that these are examples only and the actual questions in UNIselect may vary in style and content.

1   Which of these is an **irrational** number?

A   1.4

B $\sqrt{2}$

C $\dfrac{22}{7}$

D $(-0.1)^2$

2 $d = 120 - \dfrac{60}{2.4m}$

What is the value of d when $m = 5$?

A   -5

B   5

C   115

D   125

3   In the following expressions, $-1 < x < 0$.
Which expression has the **greatest** value?
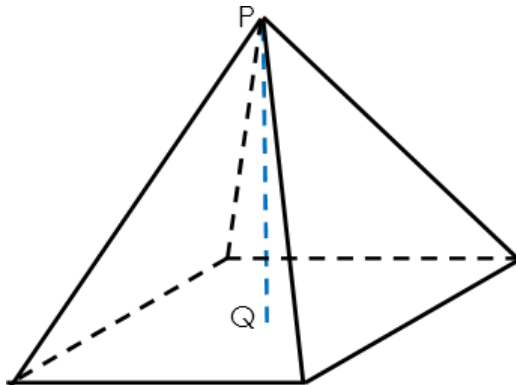
A $100x$

B $100x^2$

C $\dfrac{100}{x}$

D $\dfrac{100}{x^2}$

4   A cylindrical water tank has a diameter of 4.6 metres and a height of 2.4 metres. The capacity of one cubic metre is 1000 litres.
What is the capacity of the water tank to the nearest 100 litres?

    A 11 000
    B 34 700
    C 39 900
    D 159 900

5   This is a square-based right pyramid.

The area of the square base is 400 square metres.
The height of the pyramid, PQ, is 24 metres. What is the **area** of one triangular face?

    A 120 square metres
    B 130 square metres
    C 240 square metres
    D 260 square metres

Answers

1	B
2	C
3	D
4	C
5	D