**IF $X^2 = X + 3$, THEN $X^3$ EQUALS**

If $\frac{1}{3}$ of a number is 30, what is $\frac{3}{4}$ of the number?

**I have $10 in 10-cent coins, $10 in 20-cent coins and $10 in 50-cent coins. How many coins do I have?**

**MONOMIAL BINOMIAL TRINOMIAL**

**DO YOU LIKE MATHS?**

It’s not that I’m so smart; it’s just that I stay with problems longer.

**Australian Mathematics Competition**

Thursday 28 July 2016

If $m$ and $n$ are positive whole numbers and $mn = 100$, then $m+n$ cannot be equal to (A) 25 (B) 29 (C) 50 (D) 52 (E) 101

How many integers in the set 100, 101, 102,...,999 do not contain the digits 1 or 2 or 3 or 4?

**Pythagoras’ theorem**

$a^2 + b^2 = c^2$

**Parabola**

**Pigeonhole Principle**

If $n$ pigeons are put into $m$ holes, with $n > m$, then at least one hole must contain more than one pigeon.

**Maths can take you anywhere**

**Test Yourself**

**Problem solving**

Alfred Einstein