



Name: _____



1) Are these numbers odd or even?

a) 22 **Even**d) 156 **Even**g) $2n$ **Even**b) 37 **Odd**e) 3,330 **Even**h) $2n + 2$ **Even**c) 81 **Even**f) 4567 **Odd**i) $2n - 3$ **Odd**

2) Are these numbers rational or irrational?

HINT: Use a calculator to find the decimal valuesa) $\sqrt{2}$ **Irrational**d) $0.\dot{7}$ **Rational**g) $\sqrt{5}$ **Irrational**b) 36 **Rational**e) -13.6 **Rational**h) $0.\dot{7}\dot{6}$ **Rational**c) 243.6 **Rational**f) π **Irrational**i) $\frac{1}{2}$ **Rational**

3) Are these numbers Prime, Triangular, neither or both?

a) 1 **Triangular**e) 5 **Prime**i) 9 **Neither**b) 2 **Prime**f) 6 **Triangular**j) 10 **Triangular**c) 3 **Both**g) 7 **Prime**k) 11 **Prime**d) 4 **Neither**h) 8 **Neither**l) 21 **Triangular**

4) Use the clues to identify the numbers described below (there may be more than one answer)

a) a prime number that is a factor of 8 **2**b) the lowest triangular number that is a multiple of 4 **28**c) a number which is a prime number and triangular number **3**d) a triangular number, which is odd and also a multiple of 7 **91**e) a two digit square number that is also a triangle number **36**f) a two digit number which has 5 triangular numbers as factors **60**g) a multiple of 9 which is also a triangular number, but not a square number **153**h) a number which is a triangular number, but is also a product of two prime numbers **10**i) a prime number which is 1 more than a 2 digit triangular number **11****Exam question:**

Match up these number with their correct classification.

Rational	_____	21
Prime	_____	7
Triangular	_____	0.25
Even	_____	5.2183145...
Irrational	_____	6

