Maths Revision Worksheet: Paper I Number

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1. I know that **Natural Numbers N** are the set of whole positive numbers 1,2,3,...

I know that Integers Z are the set of whole positive and negative numbers -2,-1,0,1,2...

I know that **Rational Numbers (or fractions) Q** are numbers that can be written in the form a/b where a,b €

I know that Irrational Numbers are non-repeating, non ending decimal numbers and that $\sqrt{2}$, $\sqrt{4}$ and \prod are examples of irrational numbers

I know how to evaluate if a number is irrational or not by following the example below or by using the **S-D** button on my calculator:

Find if 5.2 is a rational number Type 5.2 = S-D If display shows a fraction...it's rational Find if .3333 is a rational number Type .3333 = S-D If display show fraction ...rational Find if $\sqrt{2}$ is a rational number Type $\sqrt{2}$ = S-D If no fraction displayed ..irrational

Ex 1 Pg 187 2012 Q2a and b Mock 2015 Q2b

- I know that N is a subset of Z and that Z is a subset of Q and that Natural, Integers, Rational and irrational numbers are all Real Numbers R SP5 Q3b
- 3. I know that the **Perfect Squares** 4,9,16,25,36...are the product of equal integers.
- 4. I know that a **Prime Number** is a number has only 2 factors, itself and 1.

The first 5 prime numbers are 2,3,5,7,11

SP2 Q4a

SP5 Q3a

- I know how to Set/Reset my Calculator to Calculator Mode MODE [1]
- 6. I know how to find the prime factors of any number by repeatedly dividing that number by prime numbers from the above list AND/OR with my calculator using the **FACT** key

i.e 720 = SHIFT FACT =
$$2^4 \times 3^2 \times 5$$

Mock 2015 Q2a

I know how to set up and display a number like 149597871 in Scientific Notation/Standard Form a x 10ⁿ on my calculator to 2 significant figures by Typing 149597871 SHIFT MODE [7] [2] = 1.5x10⁸
2013 Q3a
Mock 2015 Q2c
2014 SP Q1b

8. I know how to use the **EXP** or **x10**^x **key** on my calculator. (Pg 130) **SP2 Q3a**

9. I know how to set my calculator to **round and display numbers to 2 significant figures** by typing

1234563.3456 SHIFT MODE [6] [2] = S-D 234563.35 2013 Q3b 2013 Q4a

10. I know how to add/subtract as well as multiply/divide numbers given in Scientific Notation.

Ex 1 Pg 130