Name: _____   Date: _____

1. From the set {   2   ,   -4   , $\sqrt{3}$,   -0.18   ,   1   , $\frac{4}{5}$ }

         a)   Drag and drop the numbers above to arrange in ascending order.

               _____,   _____,   _____,   _____,   _____,   _____

         b)   From the above set of numbers, write down

           i).   the integers   _____,   _____,   _____

           ii).   the irrational number(s)   _____

           iii).   the prime number(s)   _____

           iv).   the square number(s)   _____

2. Put a check mark for each set that the number is a part of:

	Natural Number	Whole Number	Integer	Rational Number	Irrational Number	Real Number
-4						
$\frac{1}{3}$						
$\sqrt{36}$						
0.375						
π						

3. (a) Express 400 as a product of its prime factors.

       _____ | 400

       _____ |

       _____ |

       _____ |

       _____ |

> **Be sure to list factors in ASCENDING ORDER.**

400 = _____ x _____ x _____ x _____ x _____ x _____

(b) Write your answer for (a) in index form.   400 = _____ x _____

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(c) Evaluate: $\sqrt{400}$ = _____

4. From the set {20, 21, 22, 23, 24, 25, 26, 27, 28} write down the

       a) multiple of 13,   _____

       b) factor of 81   _____

       c) cube number   _____

       d) the LCM of 4 and 14   _____

       e) the HCF of 63 and 84   _____

5. Divide the product of 44 and 25 by the sum of 27 and 28.

SHOW ALL WORKING HERE

FINAL ANSWER = _____

6. Find the missing terms in the given sequences.

    (a) 4,   8,   16,   32,   _____,   _____

    (b) 53,   50,   45,   38,   29,   _____,   _____

    (c) 1,   3,   6,   10,   _____,   _____

    (d) -17,   -13,   -9,   _____,   _____,   3

    (e) 2.3,   2.9,   3.5,   4.1,   _____,   _____

7. Evaluate:

    (a) $\sqrt{625} - 3^3$ (b) $5^2 + \sqrt[3]{343}$

    _____ – _____   _____ + _____
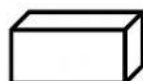
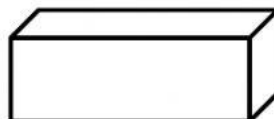   Ans = _____   Ans= _____

8. A warning light blinks every 6 seconds. Another warning light nearby blinks every 8 seconds. At one point, they blink together. Calculate how many seconds will elapse before they blink together again?

                                        Ans = _____seconds

9. Calculate the largest size bucket that can be used to exactly fill a 66 litre or 84 litre tank.

66 litres   84 litres

LIVEWORKSHEETS

Ans = _____litre

10. Identify the **first 5 terms** in the sequence whose nth term formula is: 2n- 4

_____,   _____,   _____,   _____,   _____