Prime factorization Name :

Look at the multiplication table to help you solve

	1	2	3	4	5	6	7
1	1	2	3	4	5	6	7
2	2	4	6	8	10	12	14
3	3	6	9	12	15	18	21
4	4	8	12	16	20	24	28
5	5	10	15	20	25	30	35
6	6	12	18	24	30	36	42
7	7	14	21	28	35	42	49
8	8	16	24	32	40	48	56

Question 1 : Pick the correct answer

1 . Number 18 is Prime Composite , because I can factorize it into smaller factors than itself 18 = 3 x 6

2. Number 12 is Prime Composite because

3. Number 13 is Prime composite , because

4. Number 16 is Prime composite , because

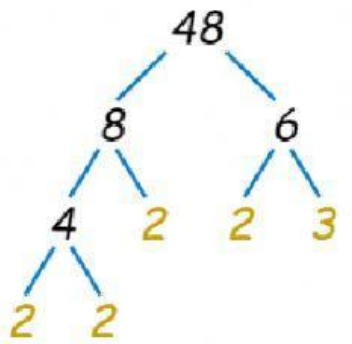
5. number 19 is Prime composite , because

6. Number 56 is Prime composite , because

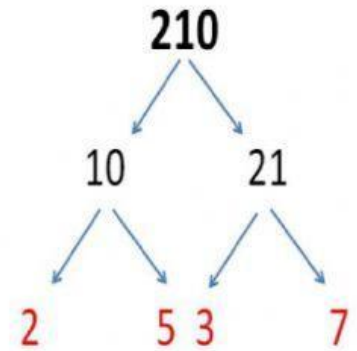
LIVEWORKSHEETS

Look at the multiplication tables to help you solve

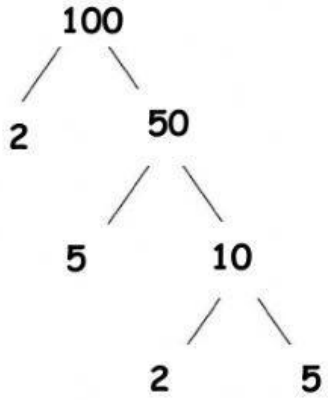
Question 2A) : Look at the factor tree , then write the prime factorization as shown :



48 = 2 x 2 x 2 x 2 x 3

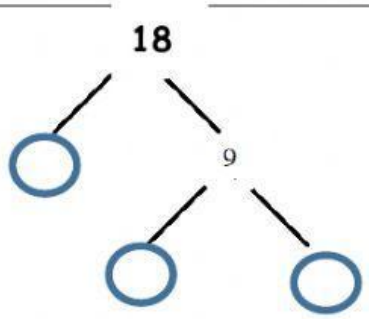


210= ___ x___x___x____

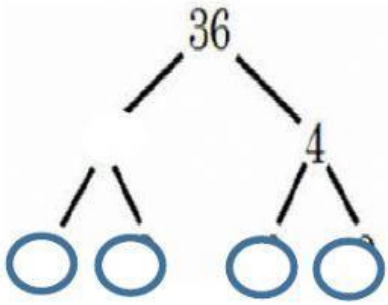


100= ___ x___x___x____

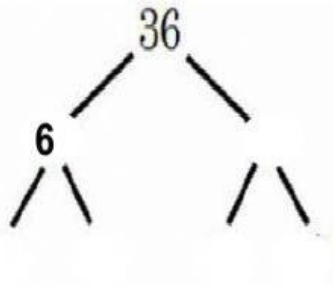
Question 2 B) : complete each factorization tree , then write the prime factorization (you can use the table of the first page)



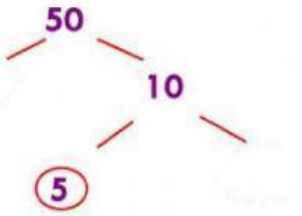
18 = ___ x ___ x ____



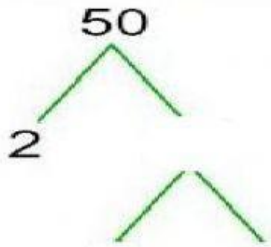
36 = ___ x ___ x ___x ___



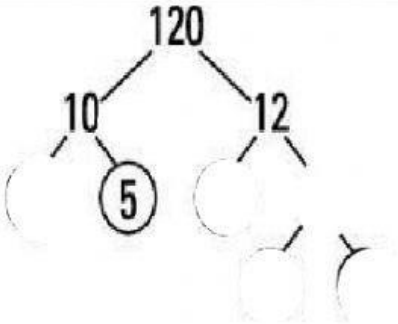
36 =___ x ___x ___x ___



50 = ___ x ___ x ____



50 = ___ x ___ x ____



120 =___ x ___ x___ x___x___

LIVEWORKSHEETS

Look at the multiplication table to help you solve

	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

Question 3 Write the **prime factorization** for each one of these numbers

(please do this question on your notebook) then send it to me to get marked

a) 90 **b) 64** **c) 72**

Question4 : match the number with the correct factorization

100	**3x3x5**
60	**2x2x7**
45	**2x3x2x5**
40	**2x2x2x5**
28	**2x5x2x5**

LIVEWORKSHEETS