

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 $18 = 3 \times 6$

2. Number 12 is Prime Composite because

3. Number 13 is Prime composite , because

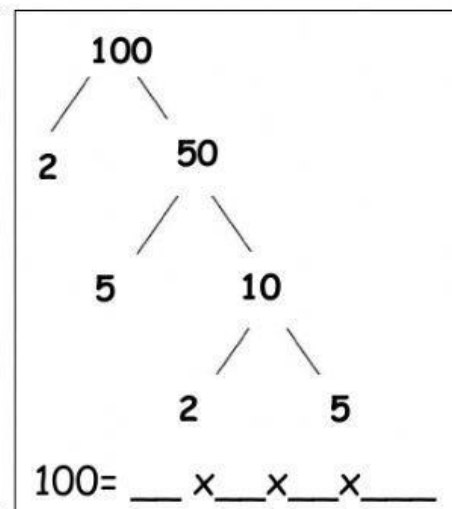
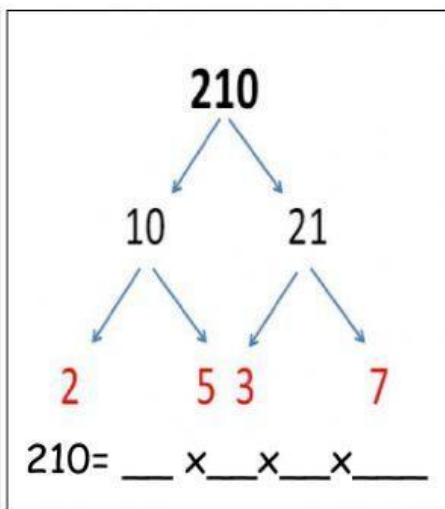
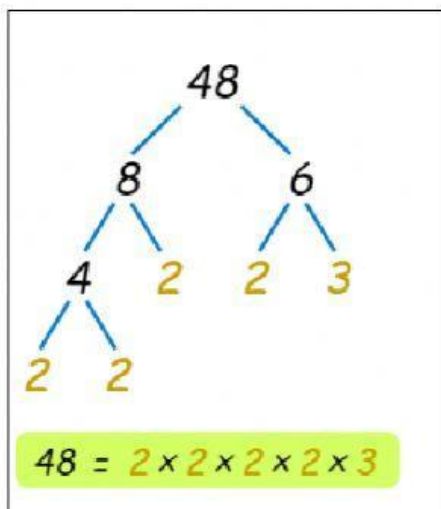
4. Number 16 is Prime composite , because

5. number 19 is Prime composite , because

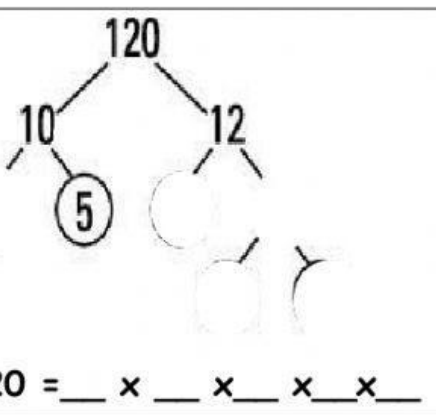
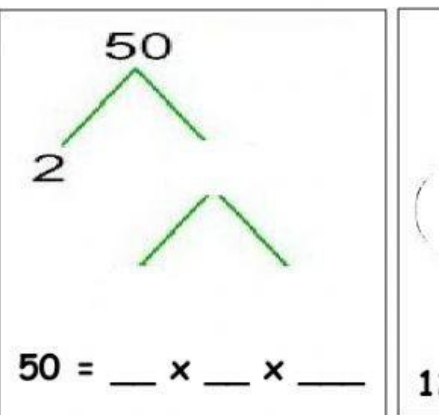
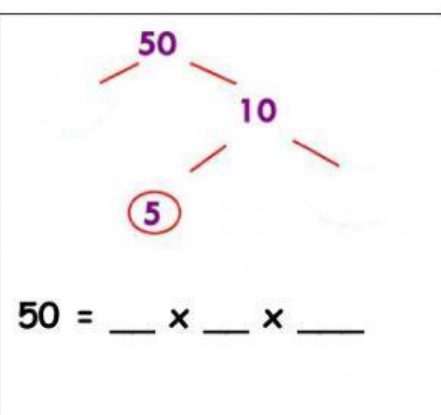
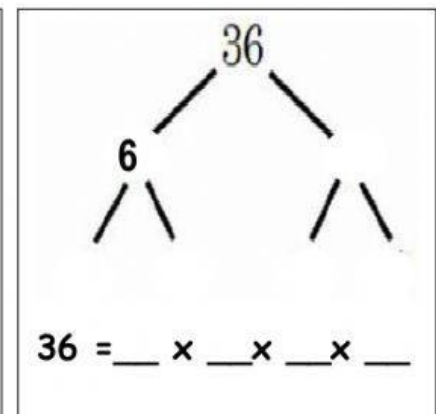
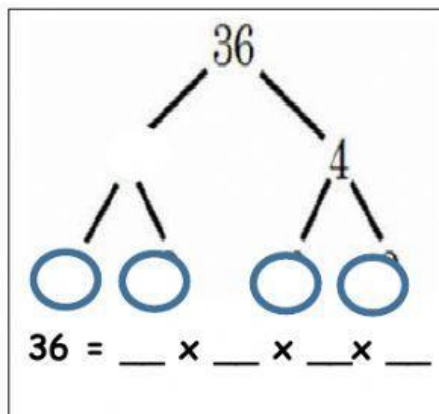
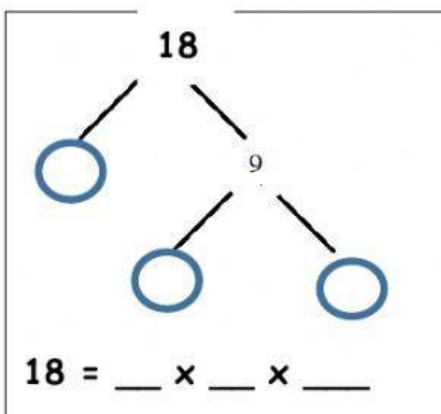
6. Number 56 is Prime composite , because

Look at the multiplication tables to help you solve

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



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



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

$3 \times 3 \times 5$

60

$2 \times 2 \times 7$

45

$2 \times 3 \times 2 \times 5$

40

$2 \times 2 \times 2 \times 5$

28

$2 \times 5 \times 2 \times 5$