Prime Factor Search

2	3^2	3	5^3	11	2
13	5	3^3	5^3	3^2	3
2	3^2	2	2^4	5	7
5^2	11^2	3	2^2	5	2^2
7	3	2	7^2	3^2	13
2^2	7	5^2	17	11	5^2

Write down the numbers that are left at the end.
What is their product?

_____

Write each number as a product of prime factors using the numbers in the grid. Cross them off as you use them!

90 = _____

100 = _____

189 = _____

80 = _____

340 = _____

450 = _____

858 = _____

1617 = _____

1125 = _____

750 = _____

182 = _____

1089 = _____

ANSWERS

$90 =$ $2 \times 3^2 \times 5$

$100 =$ $2^2 \times 5^2$

$189 =$ $3^3 \times 7$

$80 =$ $2^4 \times 5$

$340 =$ $2^2 \times 5 \times 17$

$450 =$ $2 \times 3^2 \times 5^2$

$858 =$ $2 \times 3 \times 11 \times 13$

$1617 =$ $3 \times 7^2 \times 11$

$1125 =$ $3^2 \times 5^3$

$750 =$ $2 \times 3 \times 5^3$

$182 =$ $2 \times 7 \times 13$

$1089 =$ $3^2 \times 11^2$

WRITE DOWN THE NUMBERS THAT ARE LEFT AT THE END.
WHAT IS THEIR PRODUCT?

$$2100 = 2^2 \times 3 \times 5^2 \times 7$$