

Name \_\_\_\_\_

# Prime Factors

Choose the correct option.

1) The prime factorization of 36 is:

i.  $2 \times 2 \times 2 \times 3$

ii.  $2 \times 2 \times 3 \times 3$

iii.  $2 \times 2 \times 2 \times 3 \times 5$

iv.  $3 \times 3 \times 5$

2) The prime factorization of 60 is:

i.  $2 \times 2 \times 3 \times 5$

ii.  $2 \times 3 \times 3 \times 5$

iii.  $2 \times 3 \times 5 \times 5$

iv.  $3 \times 5$

3) The prime factorization of 72 is:

i.  $2^2 \times 2^3 \times 3 \times 5$

ii.  $2^2 \times 3 \times 5$

iii.  $2^3 \times 3^2$

iv.  $2 \times 3 \times 5$

4) The prime factorization of 120 is:

i.  $2^3 \times 3^2 \times 5$

ii.  $2^3 \times 3 \times 5$

iii.  $2^3 \times 5 \times 7$

iv.  $2^3 \times 3$

5) The prime factorization of 200 is:

i.  $2 \times 3 \times 5$

ii.  $2^5$

iii.  $2 \times 3 \times 5^2$

iv.  $2^3 \times 5^2$

6) The prime factorization of 480 is:

i.  $2 \times 2 \times 3 \times 3 \times 5$

ii.  $2 \times 2 \times 3 \times 5$

iii.  $2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 5$

iv.  $2 \times 2 \times 2 \times 3 \times 5$