## PRIME FACTORS.

77

## Exercise XLV .- PRIME FACTORS.

Resolve into its prime factors each of the following numbers: (1) 30; (2) 36; (3) 108; (4) 112; (5) 128; (6) 210; (7) 324; (8) 504; (9) 555; (10) 728; (11) 1024; (12) 1000; (13) 1011; (14) 1050; (15) 1320; (16) 1768; (17) 1848; (18) 2934; (19) 3456; (20) 32320; (21) 345345; and (22) 456456.

What prime factors are common to: (23) 440 and 231? (24) 650, 635 and 540? (25) 55, 66, 77 and 121? (26) 42, 70, 156 and 210? (27) 256, 320 and 336? (28) 144 and 180?

Find the product of all the prime divisors common to: (29) 16, 24, 40; (30) 108, 81, 54; (31) 144, 180, 216; (32) 64, 96, 112, 136; (33) 75, 125, 165; (34) 306, 408, 510.

(35) The product of 2 consecutive numbers is 756. Find them.

(36) The product of 4 consecutive numbers is 1680. Find them.

(37) The product of 3 consecutive numbers is 2730. Find them.

(38) The prime factors of a number are 2, 3, 5, 7 and 11. Find the number.

(39) The prime factors of a number are 2, 2, 3, 3, 7, 13 and 19. Find the number.

(40) The prime factors of a number are the prime numbers between 10 and 30. Find the number.

## Exercise XLVI.-GREATEST COMMON MEASURE.

## . A.

Find the greatest common divisor of each of the following: (1) 546 and 462; (2) 394 and 672; (3) 735 and 770; (4) 2121 and 2626; (5) 232 and 160; (6) 1628 and 4543; (7) 12341 and 30401; (8) 15561 and 13585; (9) 34, 100 and 120; (10) 32967 and 50061.

HTE

41, 43, o. een 30

ne and

tween

posite

prime

1 100

rime

veen

both

ooth