Exercise - 5.4

A. Write all the factors of numbers in each pair.
Then find the common factors.

1. 6, 8

Factors of 6 = 1×6
           = 2×3

Factors of 8 = 1×8
           = 2×4

So the factors of 6 are = ①②, 3 and 6
The factors of 8 are = ①②, 4 and 8

Ans: The common factors of 6 and 8 are 1 and 2.

2. 30, 45

Factors of 30 = 1×30
           = 2×15
           = 3×10
           = 5×6

Factors of 45 = 1×45
           = 3×15
           = 5×9

Factors of 30 are ①, 2, ③, ⑤, 6, 10 ⑮, 30
Factors of 45 are ①③⑤, 9, ⑮ and 45.

Ans: The common factors of 30 and 45 are 1, 3, 5 and 15

3. 21, 24

Factors of 21 = 1×21
           3×7

Factors of 24 = 1×24
           = 3×8
           = 2×12
           = 6×4

Factors of 21 are ①③, 7 and 21
Factors of 24 are ①, 2 ③ 4, 6, 8, 12, 24

Ans: The common factors of 21 and 24 are 1 and 3

⊙ Similarly try to complete all the numbers of A.

EXERCISE 5.4

A. Write all the factors of numbers in each pair. Then find the common factors.

1. 6, 8
2. 30, 45
3. 21, 24
4. 28, 35
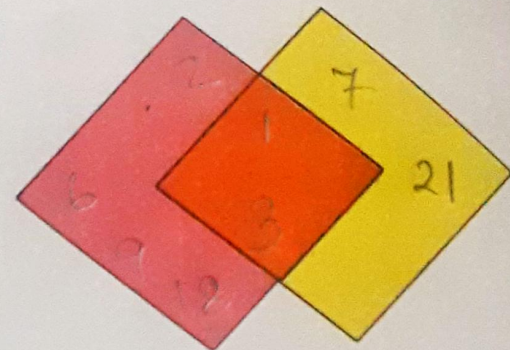5. 24, 36
6. 16, 15
7. 20, 32
8. 40, 48

B. Write all the factors of these numbers. Write the common factors in the part shaded orange.

1. 18, 21

   Factors of 18 = 1, 2, 3, 6, 9, 18

   Factors of 21 = 1, 3, 7, 21

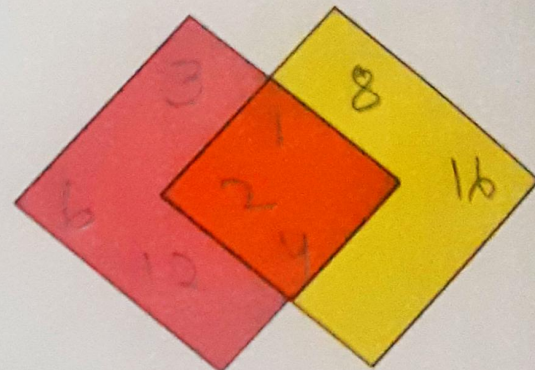   Common factors of 18 and 21 = 1 and 3

2. 12, 16

   Factors of 12 = 1, 2, 3, 4, 6, 12

   Factors of 16 = 1, 2, 4, 8, 16

   Common factors of 12 and 16 = 1, 2, 4,

3. 42, 63

   Factors of 42 = 1, 2, 3, 6, 7, 14, 21, 42

   Factors of 63 = 1, 3, 7, 9, 21, 63

   Common factors of 42 and 63 = 1, 3, 7, 21