Greatest Common Factor

To find the GCF of 12 & 16, first write down the factors of each number.

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

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

2 & 4 are factors both 12 and 16 have in common, with 4 being the greatest. So 4 is the GCF.

33 , 24

Factors of 33   ____ , ____ , ____ , ____

Factors of 24   ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

6 , 33

Factors of 6   ____ , ____ , ____ , ____

Factors of 33   ____ , ____ , ____ , ____

21 , 39

Factors of 21   ____ , ____ , ____ , ____

Factors of 39   ____ , ____ , ____ , ____

33 , 8

Factors of 33   ____ , ____ , ____ , ____

Factors of 8   ____ , ____ , ____ , ____

16 , 12

Factors of 16   ____ , ____ , ____ , ____ , ____

Factors of 12   ____ , ____ , ____ , ____ , ____ , ____

24 , 14

Factors of 24   ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

Factors of 14   ____ , ____ , ____ , ____

28 , 22

Factors of 28   ____ , ____ , ____ , ____ , ____ , ____

Factors of 22   ____ , ____ , ____ , ____

12 , 6

Factors of 12   ____ , ____ , ____ , ____ , ____ , ____

Factors of 6   ____ , ____ , ____ , ____

30 , 12

Factors of 30   ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

Factors of 12   ____ , ____ , ____ , ____ , ____ , ____

12, 4

a) Complete the venn diagram.

Factors of 12   Factors of 4
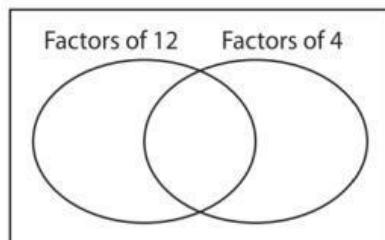
b) Common factors are _____

c) GCF(12, 4) = _____

8, 6

a) Complete the venn diagram.

Factors of 8   Factors of 6
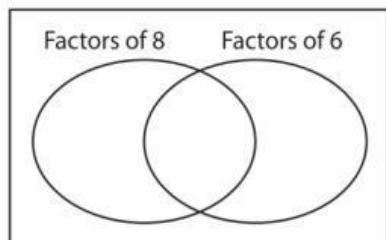
b) Common factors are _____

c) GCF(8, 6) = _____

24, 18

a) Complete the   diagram.

Factors of 24   Factors of 18
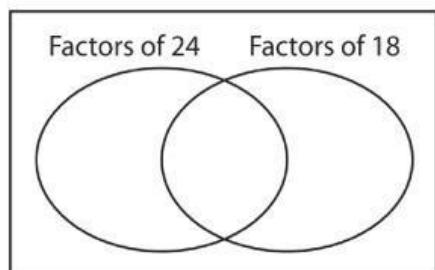
b) Common factors are _____

c) GCF(24, 18) = _____

20, 8

a) Complete the   diagram.

Factors of 20   Factors of 8
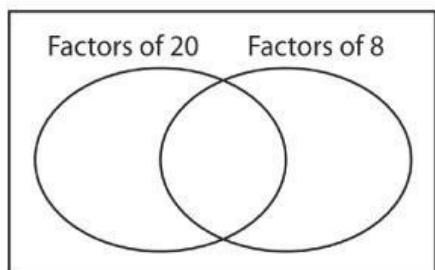
b) Common factors are _____

c) GCF(20, 8) = _____

16, 20

a) Complete the venn diagram.

Factors of 16   Factors of 20
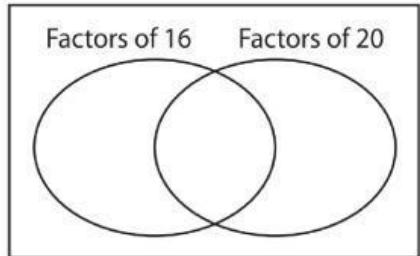
b) Common factors are _____

c) GCF(16, 20) = _____

12, 24

a) Complete the venn diagram.

Factors of 12   Factors of 24
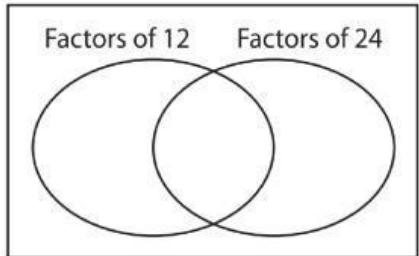
b) Common factors are _____

c) GCF(12, 24) = _____

1) 60, 96

a) Complete the venn diagram.

Factors of 60   Factors of 96
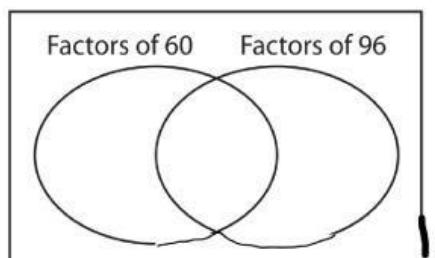
b) Common factors _____

c) GCF(60, 96) = _____

2) 27, 72

a) Complete the venn diagram.

Factors of 27   Factors of 72

Common factors are _____

GCF _____

Factors of 36   Factors of 54
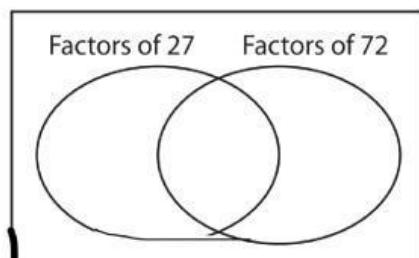
Common factors are _____
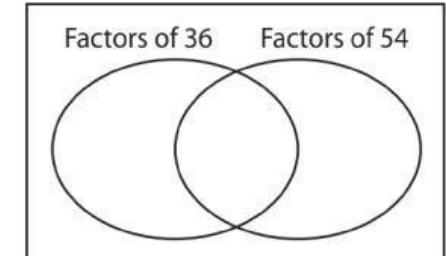
GCF(36, 54) = _____

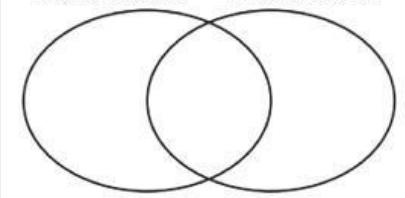Factors of 24   Factors of 64
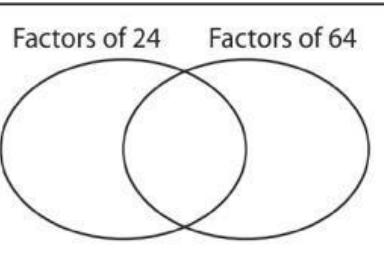
Common factors are _____

GCF(24, 64) = _____

Factors of 72   Factors of 45
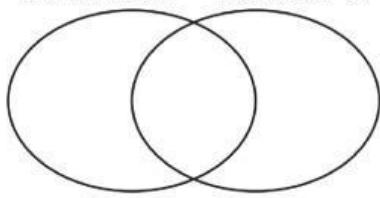
Common factors are _____

GCF(72, 45) = _____
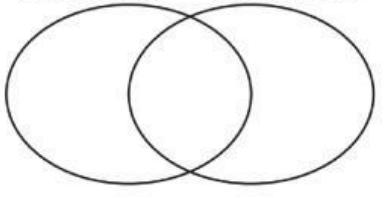
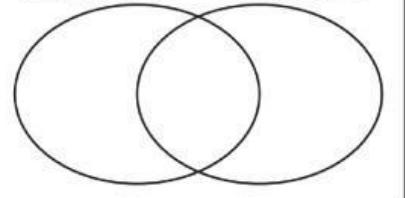Factors of 60   Factors of 24

Common factors are _____

GCF(60, 24) = _____

Factors of 27   Factors of 45

Common factors are _____

GCF(27, 45) = _____

Factors of 42   Factors of 36

Common factors are _____

GCF(42, 36) = _____