

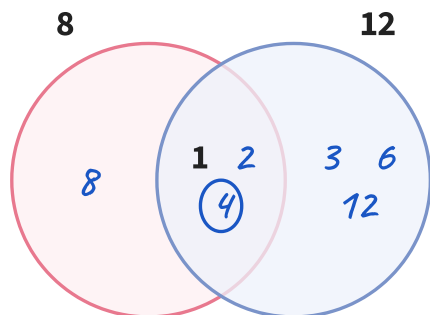
Highest Common Factor

ANSWERS

1

Find the HCF of 8 and 12.

Factors of 8: 1, 2, 4, 8
Factors of 12: 1, 2, 3, 4, 6, 12

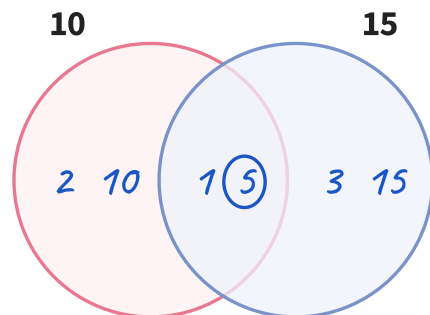


HCF = 4

2

Find the HCF of 10 and 15.

Factors of 10: 1, 2, 5, 10
Factors of 15: 1, 3, 5, 15

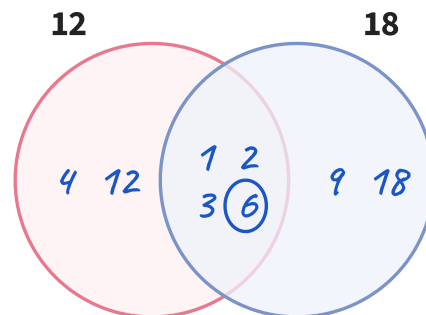


HCF = 5

3

Find the HCF of 12 and 18.

Factors of 12: 1, 2, 3, 4, 6, 12
Factors of 18: 1, 2, 3, 6, 9, 18

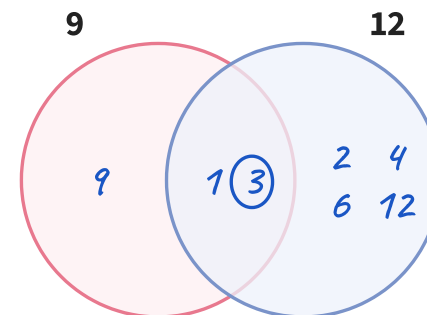


HCF = 6

4

Find the HCF of 9 and 12.

Factors of 9: 1, 3, 9
Factors of 12: 1, 2, 3, 4, 6, 12

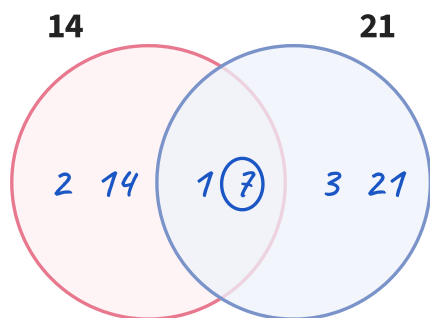


HCF = 3

5

Find the HCF of 14 and 21.

Factors of 14: 1, 2, 7, 14
Factors of 21: 1, 3, 7, 21

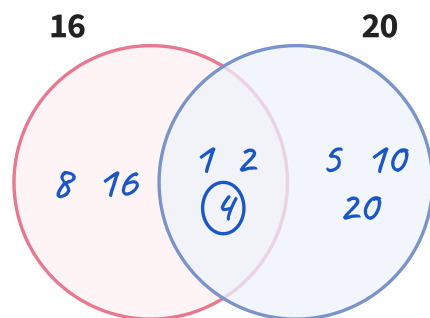


HCF = 7

6

Find the HCF of 16 and 20.

Factors of 16: 1, 2, 4, 8, 16
Factors of 20: 1, 2, 4, 5, 10, 20

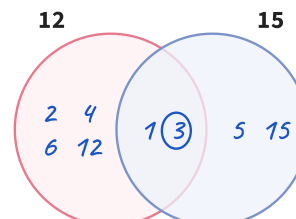


HCF = 4

7

Mo puts 12 cakes and 15 biscuits on plates. Every plate is the same. Nothing is left over. What is the most plates?

Factors of 12: 1, 2, 3, 4, 6, 12
Factors of 15: 1, 3, 5, 15

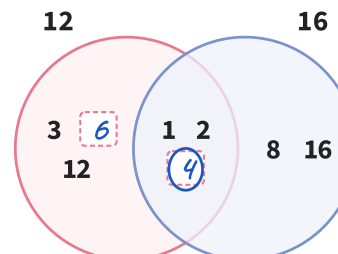


3 plates

8

Two factors are missing from the Venn. Write them in. Find the HCF.

Factors of 12: 1, 2, 3, 4, 6, 12
Factors of 16: 1, 2, 4, 8, 16



HCF = 4

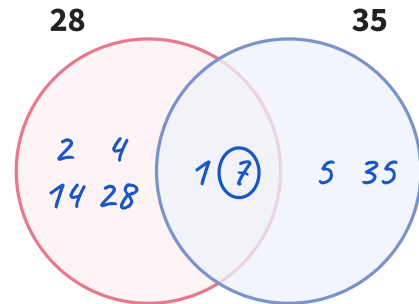
Highest Common Factor *further practice*

ANSWERS

9

Find the HCF of 28 and 35.

Factors of 28: 1, 2, 4, 7, 14, 28
Factors of 35: 1, 5, 7, 35

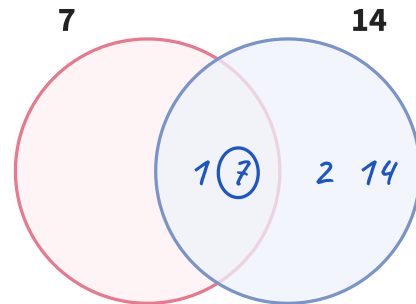


HCF = 7

10

Find the HCF of 7 and 14.

Factors of 7: 1, 7
Factors of 14: 1, 2, 7, 14

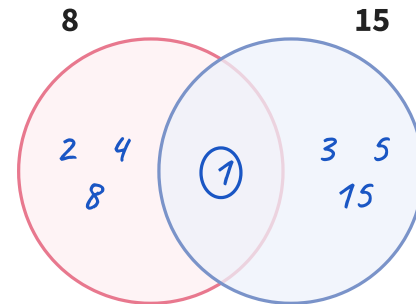


HCF = 7

11

Find the HCF of 8 and 15.

Factors of 8: 1, 2, 4, 8
Factors of 15: 1, 3, 5, 15

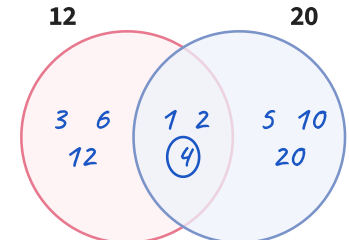


HCF = 1

12

12 boys and 20 girls make teams. Every team is the same. No one is left out. What is the most teams?

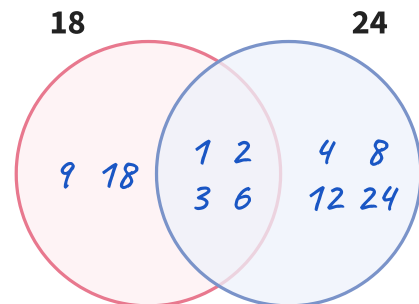
Factors of 12: 1, 2, 3, 4, 6, 12
Factors of 20: 1, 2, 4, 5, 10, 20



4 teams

13

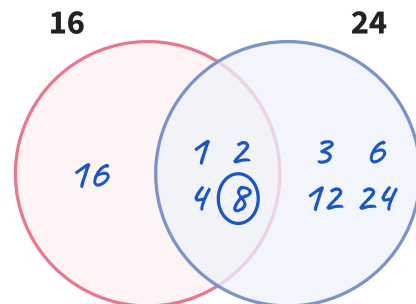
Write down all the common factors of 18 and 24.



Answer: 1, 2, 3, 6

14

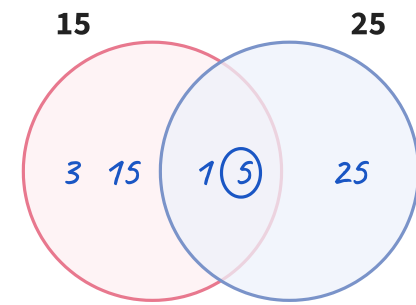
Find the HCF of 16 and 24.



HCF: 8

15

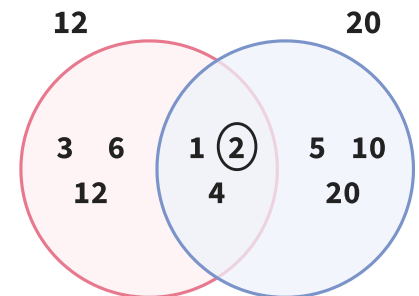
A 15 cm ribbon and a 25 cm ribbon are cut into pieces. Every piece is the same whole number of cm. Nothing is left over. What is the longest a piece can be?



Answer: 5 cm

16

Ali rings 2 as the HCF of 12 and 20. What has he done wrong?



Ali is wrong because 4 is in the middle and is bigger.

The HCF is 4.