

Hot Stuff

Factors

9a. Draw lines to match the factor pairs of 32. Which pair is the odd one out?

2	8
5	32
4	16
1	6



VF

Factors

9b. Draw lines to match the factor pairs of 44. Which pair is the odd one out?

2	15
4	44
1	11
3	22



VF

10a. True or false? All of these numbers are factors of 40.

2	10	8	40
4	5	1	20



VF

10b. True or false? All of these numbers are factors of 45.

15	1	5	10
25	3	9	45



VF

11a. Circle the numbers that are NOT factors of 50.

10	2	50
4	5	
25	1	12



VF

11b. Circle the numbers that are NOT factors of 46.

2	6	46
1	4	
8	23	3



VF

12a. Complete all of the factors of 36.



VF

12b. Complete all of the factors of 48.



VF

For both parts of this page, write out the factor pairs for each number first before identifying common factors or the highest (greatest) common factor!

1) Find the greatest common factor of 22 and 44.

Factors of 22: _____

Factors of 44: _____

The greatest common factor is _____.

2) Find the highest common factor of 45 and 27.

Factors of 45: _____

Factors of 27: _____

The highest common factor is _____.

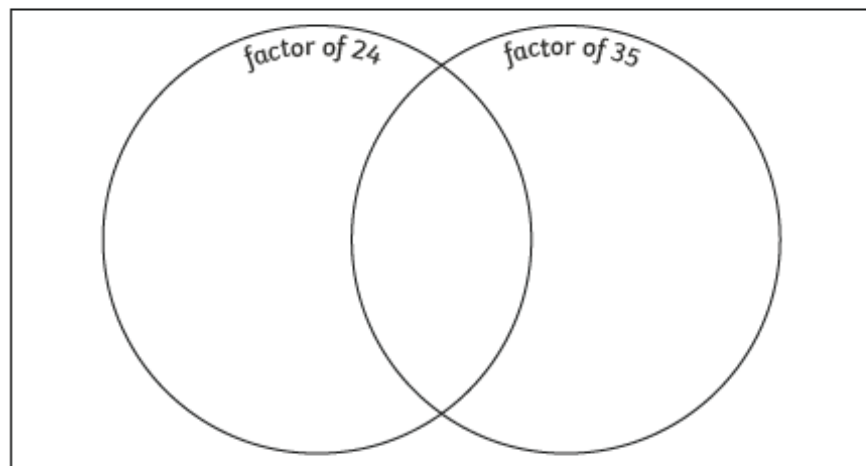
3) Find the greatest common factor of 42 and 35.

Factors of 42: _____

Factors of 35: _____

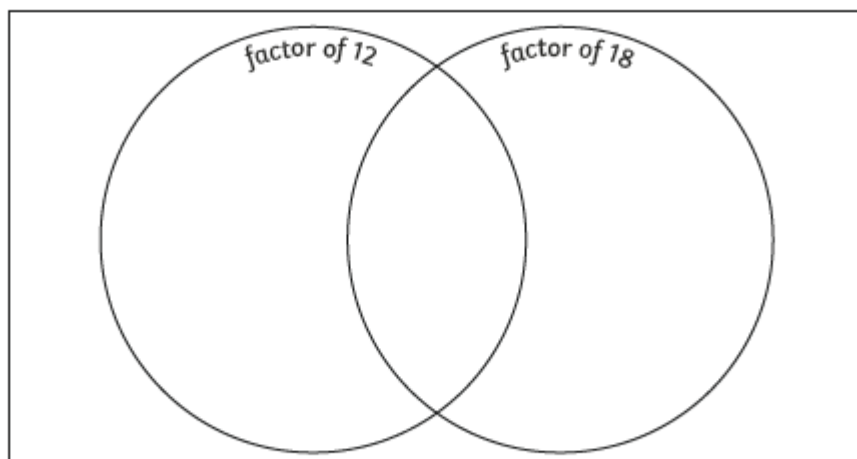
The greatest common factor is _____.

1) Place the numbers 1-35 correctly onto the Venn diagram.



What are the common factors? _____

2) Place the numbers 1-18 correctly onto the Venn diagram.



What are the common factors? _____

What is the highest common factor? _____

Answers

Greater Depth

9a. (1, 32), (2, 16), (4, 8)
The odd one out is (5, 6).

10a. True

11a. 4 and 12

12a. 1, 2, 3, 4, 6, 9, 12, 18 and 36

Greater Depth

9b. (1, 44), (2, 22), (4, 11)
The odd one out is (3, 15).

10b. False – 10 and 25 are not factors of 45.

11b. 3, 4, 6 and 8

12b. 1, 2, 3, 4, 6, 8, 12, 16, 24 and 48

Factors of 22: 1, 2, 11, 22

Factors of 44: 1, 2, 4, 11, 22, 44

The greatest common factor is 22.

2) Find the highest common factor of 45 and 27.

Factors of 45: 1, 3, 5, 9, 15, 45

Factors of 27: 1, 3, 9, 27

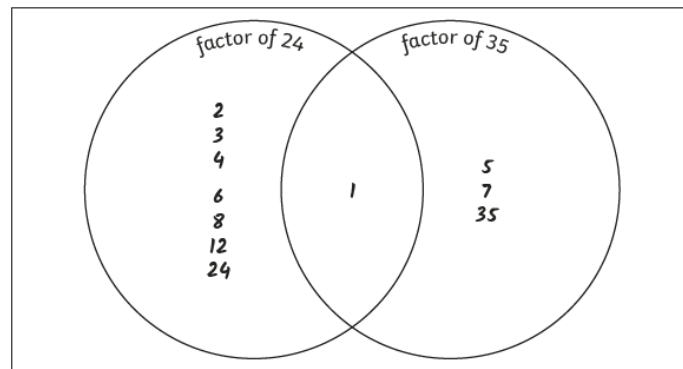
The highest common factor is 9.

3) Find the greatest common factor of 42 and 35.

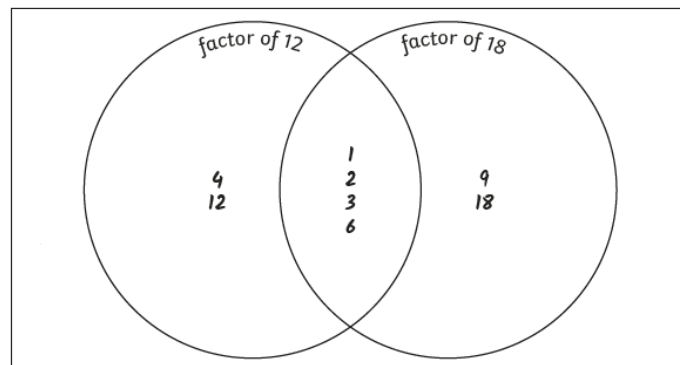
Factors of 42: 1, 2, 3, 6, 7, 14, 21, 42

Factors of 35: 1, 5, 7, 35

The greatest common factor is 7.



What are the common factors? 1



What are the common factors? 1, 2, 3, 6

What is the highest common factor? 6