

# Starting Point

## Factors

## Factors

1a. Draw lines to match the factor pairs of 12.

|   |    |
|---|----|
| 2 | 12 |
| 1 | 6  |
| 3 | 4  |



VF

1b. Draw lines to match the factor pairs of 20.

|   |    |
|---|----|
| 2 | 20 |
| 1 | 4  |
| 5 | 10 |



VF

2a. True or false? All of these numbers are factors of 15.

|    |   |
|----|---|
| 3  | 1 |
| 10 | 5 |



VF

2b. True or false? All of these numbers are factors of 10.

|   |    |
|---|----|
| 5 | 2  |
| 1 | 10 |



VF

3a. Circle the number that is NOT a factor of 25.

|   |   |   |
|---|---|---|
| 3 | 1 | 5 |
|---|---|---|



VF

3b. Circle the number that is NOT a factor of 36.

|   |   |   |
|---|---|---|
| 2 | 3 | 5 |
|---|---|---|



VF

4a. Use the numbers 2, 3, 5 or 10 to complete the missing factors of 6.

|   |  |  |   |
|---|--|--|---|
| 1 |  |  | 6 |
|---|--|--|---|



VF

4b. Use the numbers 2, 3, 5 or 10 to complete the missing factors of 18.

|   |  |  |   |   |    |
|---|--|--|---|---|----|
| 1 |  |  | 6 | 9 | 18 |
|---|--|--|---|---|----|



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 18 and 24.

Factors of 18: \_\_\_\_\_

Factors of 24: \_\_\_\_\_

The greatest common factor is \_\_\_\_\_.

2) Find the highest common factor of 30 and 25.

Factors of 30: \_\_\_\_\_

Factors of 25: \_\_\_\_\_

The highest common factor is \_\_\_\_\_.

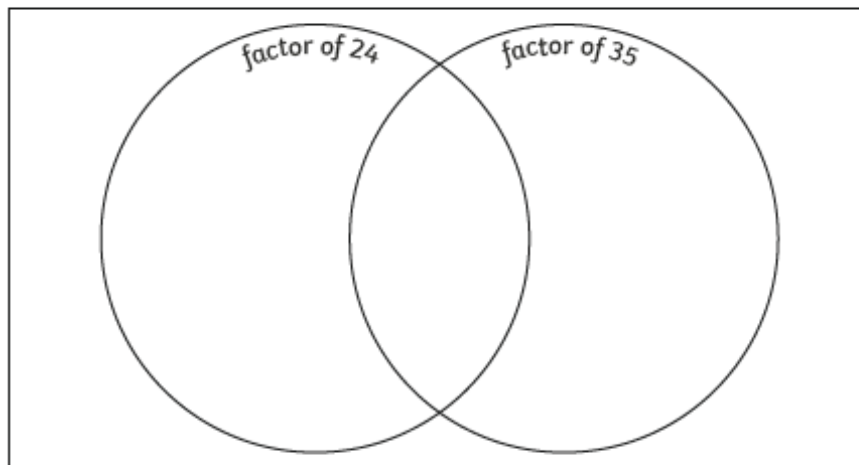
3) Find the greatest common factor of 21 and 28.

Factors of 21: \_\_\_\_\_

Factors of 28: \_\_\_\_\_

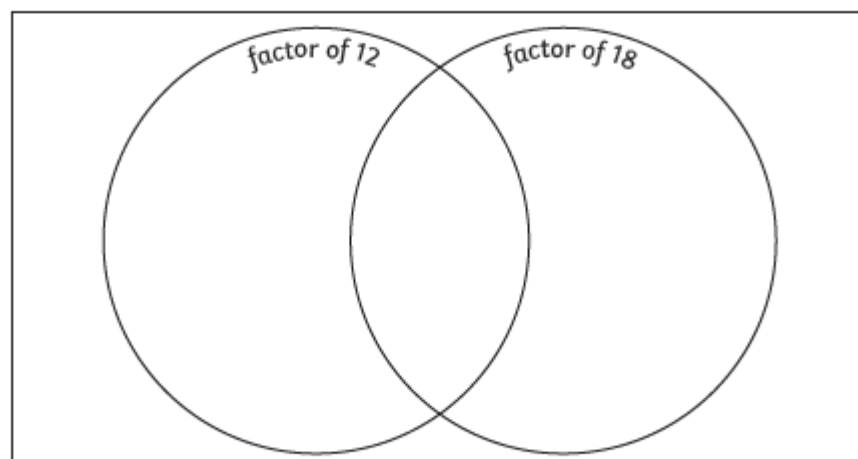
The greatest common factor is \_\_\_\_\_.

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

## Developing

1a. (1, 12), (2, 6), (3, 4)

2a. False – 10 is not a factor of 15.

3a. 3

4a. 2 and 3

## Developing

1b. (1, 20), (2, 10), (4, 5)

2b. True

3b. 5

4b. 2 and 3

1) Find the greatest common factor of 20 and 25.

Factors of 20 are 1, 2, 4, 5, 10, 20      Factors of 25 are 1, 5, 25

Greatest common factor is 5.

2) Find the greatest common factor of 28 and 12.

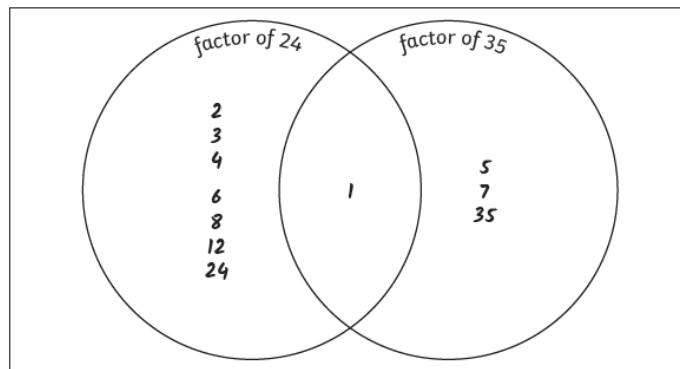
Factors of 28: 1, 2, 4, 7, 14, 28      Factors of 12: 1, 2, 3, 4, 6, 12

Greatest common factor is 4.

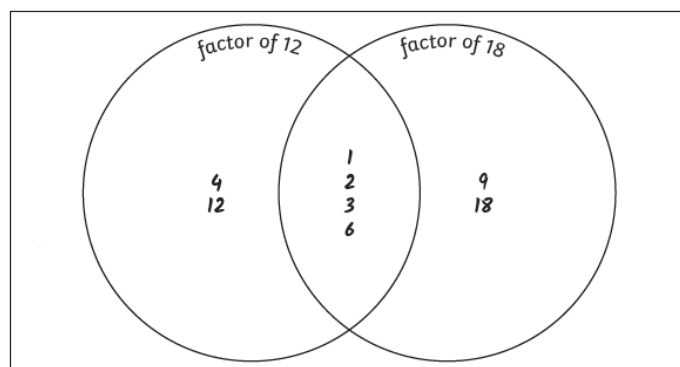
3) Find the greatest common factor of 15 and 24.

Factors of 15: 1, 3, 5, 15      Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24

Greatest common factor is 3.



What are the common factors? 1



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

What is the highest common factor? 6