

Feeling Happy

Factors

Factors

<p>5a. Draw lines to match the factor pairs of 16. Which pair is the odd one out?</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin: 5px;">4</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">6</div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin: 5px;">3</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">8</div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin: 5px;">2</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">4</div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> VF </div>	<p>5b. Draw lines to match the factor pairs of 18. Which pair is the odd one out?</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin: 5px;">2</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">5</div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin: 5px;">3</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">9</div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin: 5px;">4</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">6</div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> VF </div>
<p>6a. True or false? All of these numbers are factors of 22.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid green; padding: 5px; margin: 5px;">4</div> <div style="border: 1px solid green; padding: 5px; margin: 5px;">1</div> <div style="border: 1px solid green; padding: 5px; margin: 5px;">22</div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid green; padding: 5px; margin: 5px;">2</div> <div style="border: 1px solid green; padding: 5px; margin: 5px;">6</div> <div style="border: 1px solid green; padding: 5px; margin: 5px;">11</div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> VF </div>	<p>6b. True or false? All of these numbers are factors of 24.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid blue; padding: 5px; margin: 5px;">2</div> <div style="border: 1px solid blue; padding: 5px; margin: 5px;">6</div> <div style="border: 1px solid blue; padding: 5px; margin: 5px;">3</div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid blue; padding: 5px; margin: 5px;">8</div> <div style="border: 1px solid blue; padding: 5px; margin: 5px;">4</div> <div style="border: 1px solid blue; padding: 5px; margin: 5px;">12</div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> VF </div>
<p>7a. Circle the numbers that are NOT factors of 14.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; margin: 5px;">7</div> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; margin: 5px;">1</div> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; margin: 5px;">4</div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; margin: 5px;">6</div> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; margin: 5px;">14</div> </div> <div style="display: flex; justify-content: center; align-items: center;"> <div style="border: 1px solid orange; border-radius: 10px; padding: 5px; margin: 5px;">2</div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> VF </div>	<p>7b. Circle the numbers that are NOT factors of 21.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid purple; border-radius: 10px; padding: 5px; margin: 5px;">7</div> <div style="border: 1px solid purple; border-radius: 10px; padding: 5px; margin: 5px;">2</div> <div style="border: 1px solid purple; border-radius: 10px; padding: 5px; margin: 5px;">11</div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid purple; border-radius: 10px; padding: 5px; margin: 5px;">3</div> <div style="border: 1px solid purple; border-radius: 10px; padding: 5px; margin: 5px;">21</div> </div> <div style="display: flex; justify-content: center; align-items: center;"> <div style="border: 1px solid purple; border-radius: 10px; padding: 5px; margin: 5px;">1</div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> VF </div>
<p>8a. Complete the missing factors of 27.</p> <div style="display: flex; justify-content: center; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; margin: 5px;">1</div> <div style="border: 1px solid black; padding: 5px; margin: 5px; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; padding: 5px; margin: 5px; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">27</div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> VF </div>	<p>8b. Complete the missing factors of 35.</p> <div style="display: flex; justify-content: center; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; margin: 5px;">1</div> <div style="border: 1px solid black; padding: 5px; margin: 5px; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; padding: 5px; margin: 5px; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">35</div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> VF </div>

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 _____.

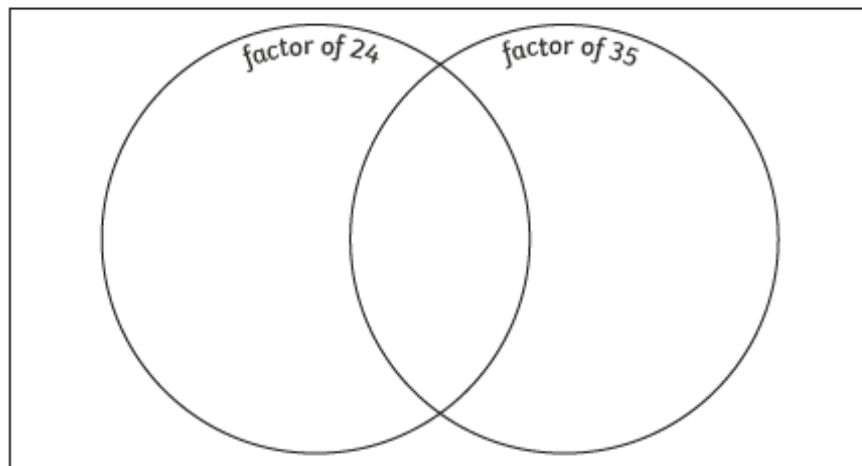
3) Find the greatest common factor of 21 and 28.

Factors of 21: _____

Factors of 28: _____

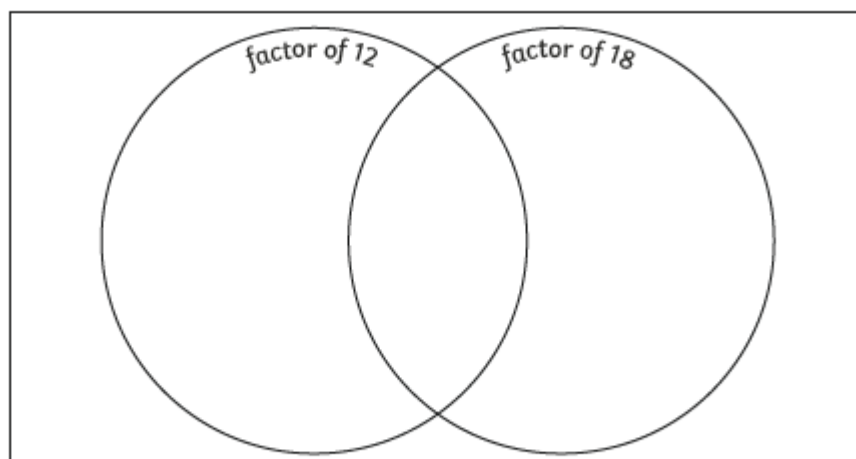
The greatest common factor is _____.

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

Expected

5a. (2, 8), (4, 4)

The odd one out is (3, 6).

6a. False – 4 and 6 are not factors of 22.

7a. 4 and 6

8a. 3 and 9

Expected

5b. (2, 9), (3, 6)

The odd one out is (4, 5).

6b. True

7b. 2 and 11

8b. 5 and 7

1) Find the greatest common factor of 18 and 24.

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

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

The greatest common factor is 6.

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

Factors of 30: 1, 2, 5, 6, 15, 30

Factors of 25: 1, 5, 25

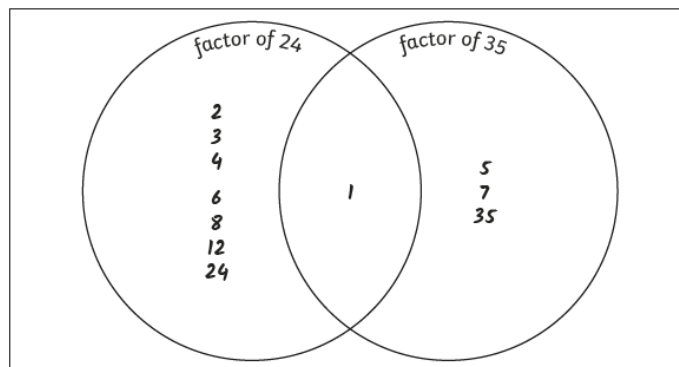
The highest common factor is 5.

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

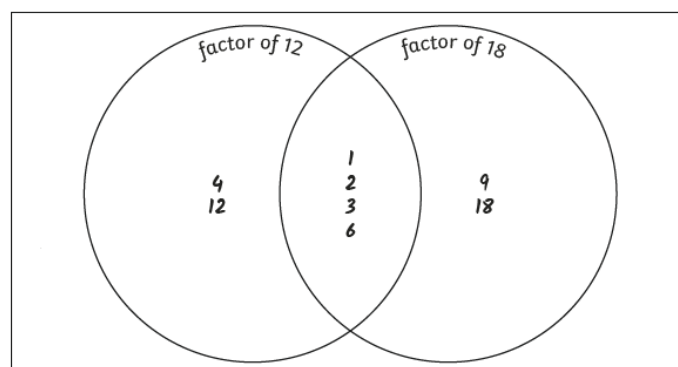
Factors of 21: 1, 3, 7, 21

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

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