

## Factor Pairs Bingo Numbers

(Read at random)

<b>4</b>	<b>8</b>	<b>12</b>	<b>16</b>	<b>20</b>
<b>24</b>	<b>28</b>	<b>32</b>	<b>36</b>	<b>40</b>
<b>44</b>	<b>48</b>	<b>6</b>	<b>10</b>	<b>14</b>
<b>18</b>	<b>56</b>	<b>64</b>	<b>72</b>	<b>80</b>
<b>88</b>	<b>96</b>			

# Factor Pairs Bingo Sheets

<b>1, 4</b>	<b>4, 11</b>	<b>8, 12</b>
<b>8, 3</b>	<b>5, 2</b>	<b>1, 14</b>

<b>7, 8</b>	<b>4, 11</b>	<b>8, 9</b>
<b>8, 3</b>	<b>20, 4</b>	<b>1, 14</b>

<b>1, 4</b>	<b>10, 4</b>	<b>8, 12</b>
<b>8, 3</b>	<b>8, 8</b>	<b>12, 4</b>

<b>12, 3</b>	<b>4, 11</b>	<b>2, 9</b>
<b>8, 3</b>	<b>20, 2</b>	<b>1, 14</b>

<b>12, 4</b>	<b>3, 2</b>	<b>2, 7</b>
<b>8, 11</b>	<b>12, 2</b>	<b>8, 8</b>

## Factor Pairs Bingo Sheets

1, 6	8, 2	2, 7
8, 11	5, 2	8, 8

9, 8	4, 11	4, 9
8, 3	20, 1	8, 12

6, 6	10, 4	8, 12
8, 3	8, 8	12, 4

7, 8	10, 8	8, 9
8, 3	20, 4	12, 6

1, 4	4, 11	8, 11
6, 3	5, 2	2, 18

## Factor Pairs Bingo Sheets

1, 6	8, 2	2, 7
8, 11	20, 1	8, 3

9, 8	4, 11	4, 9
8, 8	5, 2	8, 12

20, 4	10, 4	8, 12
8, 3	8, 8	12, 4

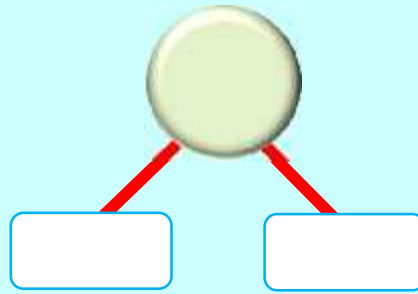
6, 3	10, 8	8, 9
8, 3	6, 6	12, 6

1, 4	4, 11	8, 11
7, 8	5, 2	2, 18



# Common Factors

A task setting PowerPoint Pack about common factors.



**LO:** To identify common factors between two numbers.

- To recall multiplication facts for **times tables up to 12**.

# Recap

$x$  and  $y$  lines that cross at right angles to make a graph.

two numbers that multiply together to make a specific number.

A pair of factors are...

the numbers you are multiplying by.

Starter

Factor Pair

***BINGO***



## Starter

# Factor Pair Bingo

- ✓ Each pair will be given a bingo card and on the bingo card are factor pairs.
- ✓ Numbers will be read out and you need to work out if any of your factor pairs belong to that number.
- ✓ If they do, circle your factor pair.
- ✓ When you have completed your sheet, shout “bingo”!

# Introduction

Now we know what factors are, let's look at **common factors**.

A common factor is a factor that **two or more numbers** have in common.

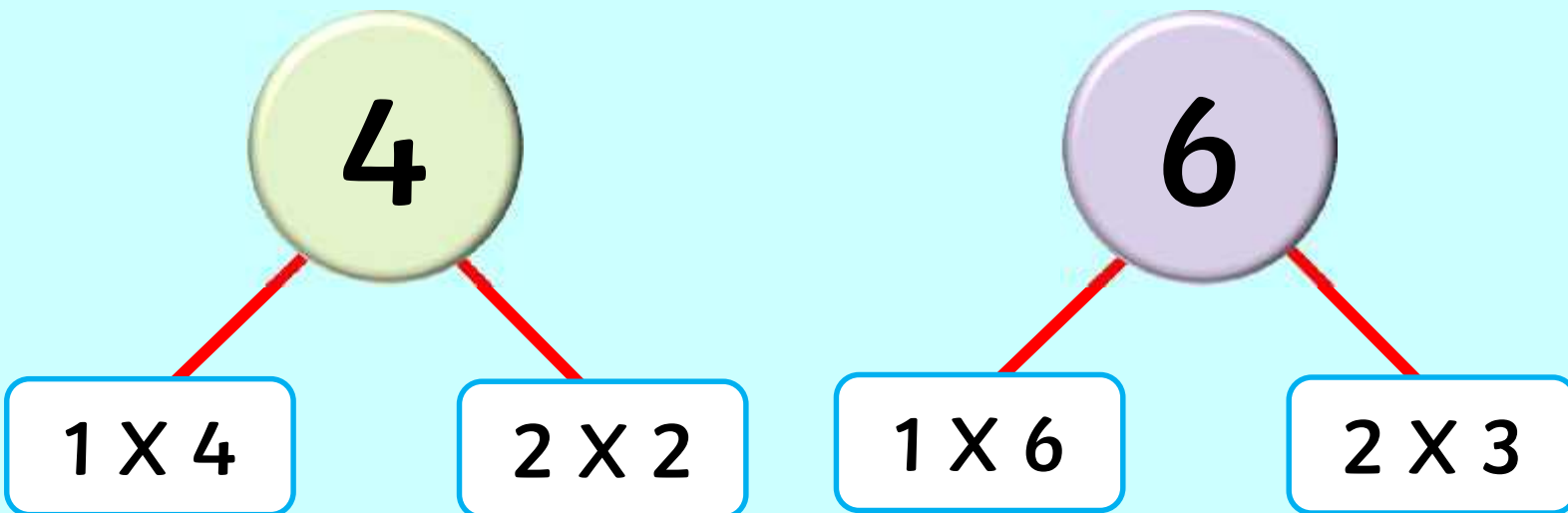
Let's try finding some common factors together!

# Introduction

Q

Find the common factors of 4 and 6.

**First**, find the **factor pairs** for 4 and 6.

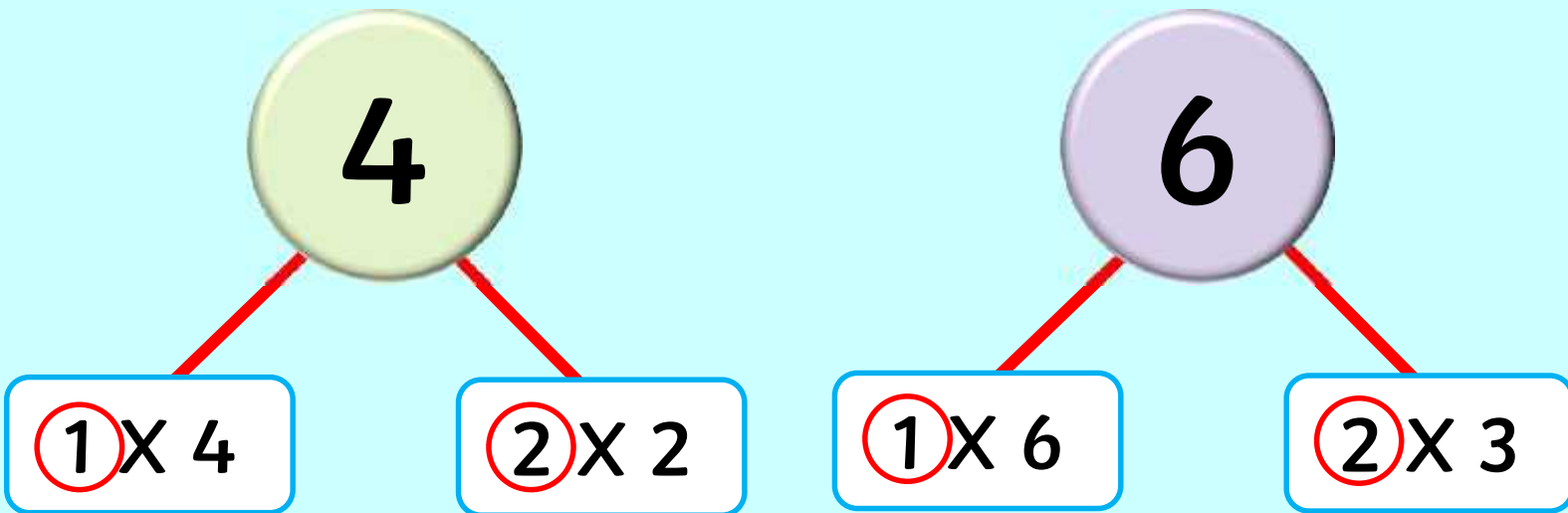


# Introduction

Q

Find the common factors of 4 and 6.

**Next**, mark the **factors** that belong to 4 and 6.

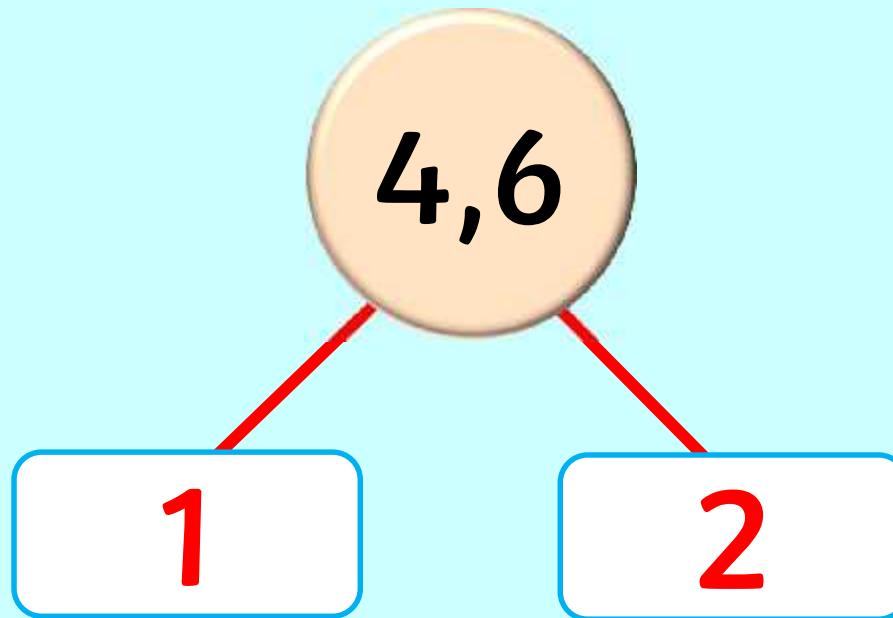


# Introduction

Q

Find the common factors of 4 and 6.

The highlighted factors are the factors that 4 and 6 share. This makes these numbers the **common factors**.



# Introduction

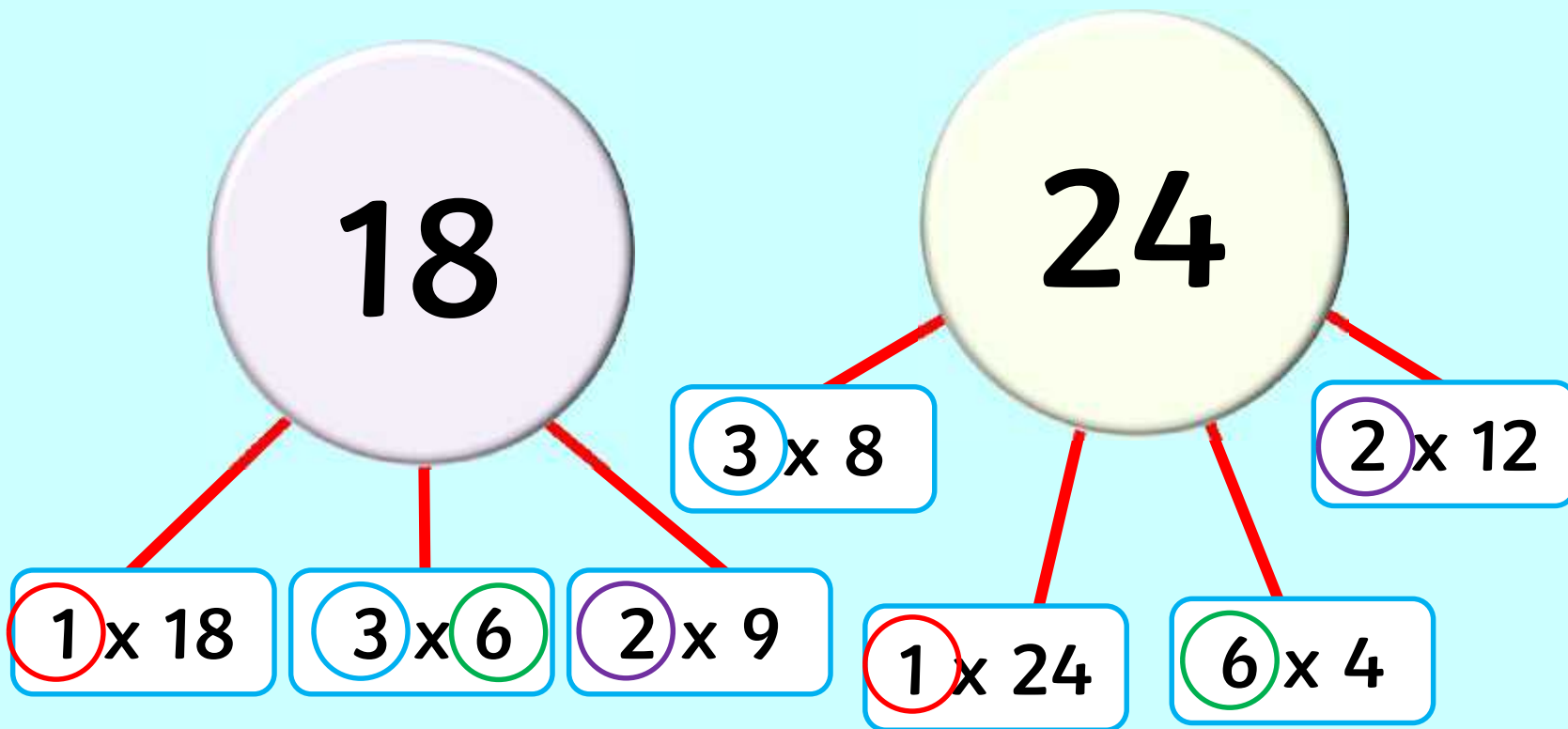
Let's try finding some more common factors. This time try working in a pair to find the common factors for:

18

24

# Introduction

For 18 and 24, the common factors are:



# Activity

## Task 1

Can you use the method we have used to find the common factors for the pairs on the worksheet?

## Task 2

Now, try working out the common factors for **3 numbers!**  
The method is the same.



# Activity

## Quick fire common factors!

Can you solve the common factors for these numbers mentally?



# Plenary

**Quick fire common factors!**

18

24

**ANSWER**

# Plenary

**Quick fire common factors!**

27

6

**ANSWER**

# Plenary

**Quick fire common factors!**

30

20

**ANSWER**

# Plenary

**Quick fire common factors!**

6

12

**ANSWER**

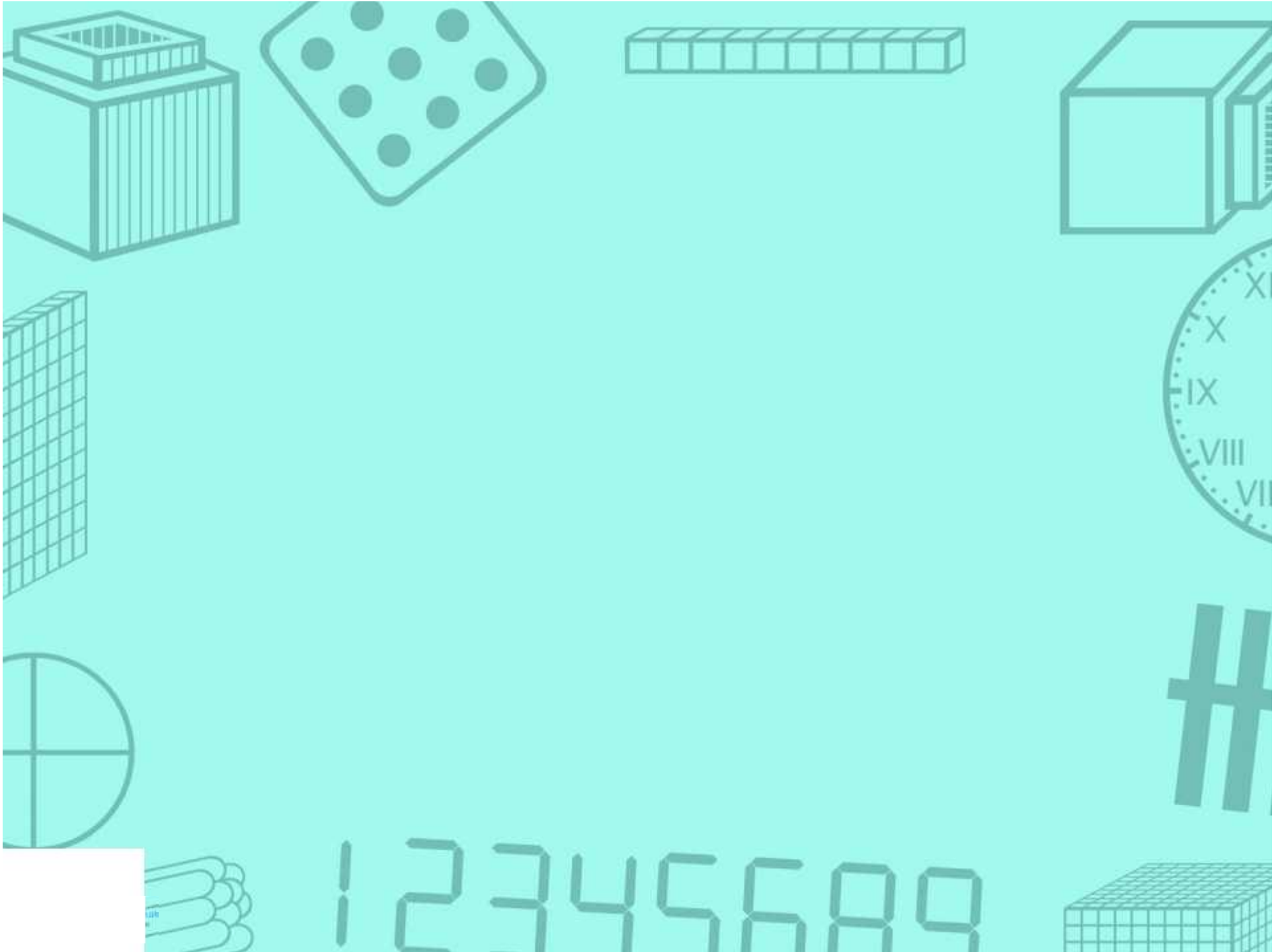
# Plenary

**Quick fire common factors!**

**3**

**7**

**1! They are both prime numbers!**



# Find the Common Factors: Task 1

Name:..... Date:.....

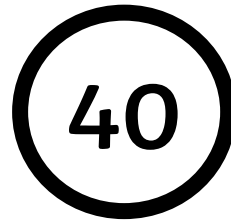
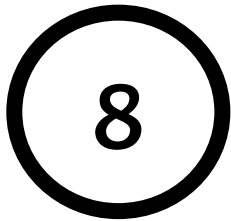
Can you find the common factors for these pairs of numbers?

1)



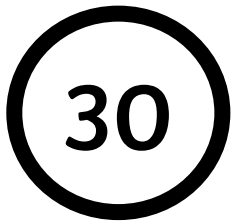
The common factors are:

2)



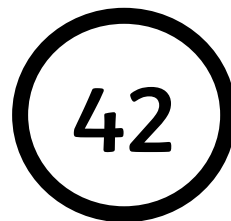
The common factors are:

3)



The common factors are:

4)



The common factors are:



5)

50

20

The common factors are:

6)

16

44

The common factors are:

7)

99

36

The common factors are:

8)

24

108

The common factors are:

## Answers

1) 1

2) 1, 2, 4, 8

3) 1, 2, 3, 6,

4) 1, 3, 7,

5) 1, 2, 5, 10

6) 1, 2, 4

7) 1, 3, 9

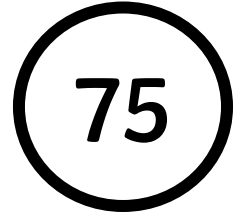
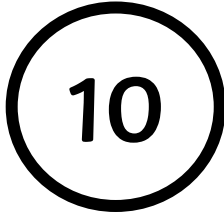
8) 1, 2, 3, 4, 6, 12

## Find the Common Factors: Task 2

Name:..... Date:.....

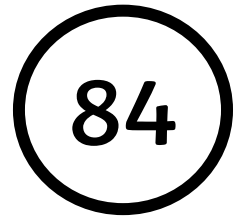
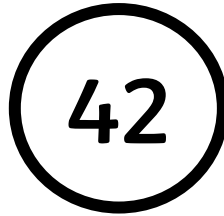
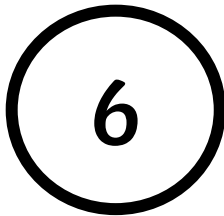
Can you find the common factors for these trios of numbers?

1)



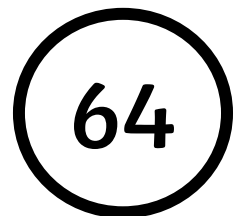
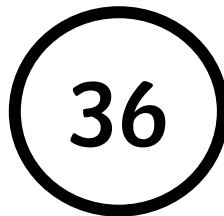
The common factors are:

2)



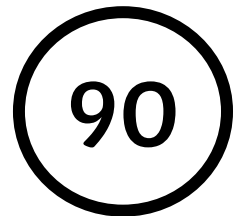
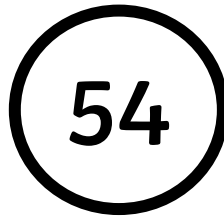
The common factors are:

3)



The common factors are:

4)



The common factors are:

## Answers

1) 1, 5

2) 1, 2, 3, 6

3) 1, 2, 4,

4) 1, 3, 9