**A**

**Primary 4 Mathematics**

**Common Factor**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: \_\_\_\_\_\_\_\_\_\_\_\_\_ ( )

**Finding factors.**

|  |  |  |
| --- | --- | --- |
| **Divide 6 into groups of:** | **Number of groups / remainder** | **Is it a factor of 6? (🗸/🗴)** |
| 1 | 6 ÷ **1** = 6 | **🗸** |
| 2 | 6 ÷ **2** = |  |
|  | 6 ÷ **3** = |  |
|  | 6 ÷  = |  |
|  | 6 ÷  = |  |
|  | 6 ÷  = |  |

a. Factors of 6 are: , , ,

**B**

**Primary 4 Mathematics**

**Common Factor**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: \_\_\_\_\_\_\_\_\_\_\_\_\_ ( )

**Finding factors.**

|  |  |  |
| --- | --- | --- |
| **Divide 8 into groups of:** | **Number of groups / remainder** | **Is it a factor of 8? (🗸/🗴)** |
| 1 | 8 ÷ **1** = 8 | **🗸** |
| 2 | 8 ÷ **2** = |  |
|  | 8 ÷ **3** = |  |
|  | 8 ÷ **4** = |  |
|  | 8 ÷  = |  |
|  | 8 ÷  = |  |
|  | 8 ÷  = |  |
|  | 8 ÷  = |  |

b. Factors of 8 are: , , ,

c. Among the factors of 6 and 8, which factors are the **same**? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d. They are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of 6 and 8.

|  |  |  |
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| **Divide 8 and 12 into groups of:** | **Number of groups / remainder** | **Is it a common factor of 8 and 12?** |
| 1  1  8  12 | 8 ÷ **1** = 8  12 ÷ **1** = 12 | 🗸 |
| 8  12  2  2 | 8 ÷ **2** =  12 ÷ **2** = |  |
| 8  12 | 8 ÷  =  12 ÷  == |  |
| 8  12 | 8 ÷  =  12 ÷  = |  |
| 8  12 | 8 ÷  ==  12 ÷  == |  |
| 8  12 | 8 ÷  ==  12 ÷  == |  |
| 8  12 | 8 ÷  ==  12 ÷  == |  |
| 8  12 | 8 ÷  ==  12 ÷  == |  |
| 8  12 | 8 ÷  ==  12 ÷  == |  |
| 8  12 | 8 ÷  ==  12 ÷  == |  |
| 8  12 | 8 ÷  ==  12 ÷  == |  |
| 8  12 | 8 ÷  ==  12 ÷  == |  |

1. The common factors of 8 and 12 are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. The highest common factor (H.C.F.) of 8 and 12 is \_\_\_\_\_\_\_\_\_\_.

Factor

|  |  |  |
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| Questions | **Calculation / Reason** | **Is it a factor of …? (🗸/🗴)** |
| Is 2 a factor of 24? | 24 ÷ 2 = 12  So, 24 is divisible by 2. | **🗸** |
| Is 1 a factor of 11? | 11 ÷ 1 = \_\_\_\_  So, 11 is / is not divisible by 1. |  |
| Is 2 a factor of 17? | \_\_\_\_ ÷\_\_\_\_ = \_\_\_\_  So, 17 is / is not divisible by 2. |  |
| Is 5 a factor of 75? | \_\_\_\_ ÷\_\_\_\_ = \_\_\_\_  So, 75 is / is not divisible by 5. |  |
| Is 12 a factor of 72? | \_\_\_\_ ÷\_\_\_\_ = \_\_\_\_  So, 72 divisible by 12. |  |
| Is 4 a factor of 54? | \_\_\_\_ ÷\_\_\_\_ = \_\_\_\_  So, 54 divisible by 4. |  |
| Is 19 a factor of 19? | \_\_\_\_ ÷\_\_\_\_ = \_\_\_\_  So, 19 divisible by 19. |  |
| Is 3 a factor of 18? | \_\_\_\_ ÷\_\_\_\_ = \_\_\_\_  So, 18 divisible by 3. |  |

Is 18 a factor of 3? Why?

Common Factor

|  |  |  |
| --- | --- | --- |
| Questions | **Calculation / Reason** | **Is it a common factor? (🗸/🗴)** |
| Is 2 a common factor of 16 and 24? | 16 ÷ 2 = 8 16 is divisible by 2.  24 ÷ 2 = 12 24 is divisible by 2. | **🗸** |
| Is 1 a common factor of 16 and 24? | 16 ÷ 1 = 16 divisible by 1.  24 ÷ 1 = 24 divisible by 1. |  |
| Is 3 a common factor of 16 and 24? | ÷ = 16 divisible by 3.  ÷ = 24 divisible by 3. |  |
| Is 4 a common factor of 16 and 24? | ÷ = 16 divisible by 4.  ÷ = 24 divisible by 4. |  |
| Is 5 a common factor of 16 and 24? | ÷ = 16 divisible by 5.  ÷ = 24 divisible by 5. |  |
| Is 12 a common factor of 16 and 24? | ÷ = 16 divisible by 12.  ÷ = 24 divisible by 12. |  |

Bonus Questions

1.

1. List all factors of 60. (Hint: there are 12 factors in total.)  
   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. List all factors of 72. (Hint: there are 12 factors in total.)  
   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. The common factors of 60 and 72 are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. The least common factor is \_\_\_\_\_\_.
5. The highest common factor (H.C.F.) is \_\_\_\_\_\_.

2.

1. List all factors of 120. (Hint: there are 16 factors in total.)  
   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. List all factors of 144. (Hint: there are 15 factors in total.)  
   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. The common factors of 120 and 144 are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. The least common factor is \_\_\_\_\_\_.
5. The highest common factor (H.C.F.) is \_\_\_\_\_\_.