Real World Scenarios

Word Exercises 1

|  |  |
| --- | --- |
| 1 | One number is 3 times as large as another. Their sum is 28. Find the numbers. |
| 2 | One number is 3 less than another. Their sum is 21. Find the numbers. |
| 3 | One number is 5 more than another. Twice the larger is 12 less than 3 times the smaller. Find the numbers. |
| 4 | One number is 4 more than another. Four times the smaller is equal to 3 times the larger increased by 1. Find the numbers. |
| 5 | One number is 7 less than another. Seven times the smaller is equal to 5 times the larger decreased by 15. Find the numbers. 35 |
| 6 | One number is 4 times as large as another. If the numbers are added together, the result is 6 less than 7 times the smaller. Find the numbers. |
| 7 | The sum of two numbers is 26. Twice the larger is 2 more than 8 times the smaller. Find the numbers. |
| 8 | The sum of two numbers is 18. The larger is 2 less than 4 times the smaller. Find the numbers. |
| 9 | The sum of two numbers is 13. Five times the smaller is 7 less than 4 times the larger. Find the numbers. |
| 10 | The sum of two numbers is 9. If 9 times the larger is subtracted from 12 times the smaller, the result is 3. Find the numbers. |

Word Exercises 2

|  |  |
| --- | --- |
| 1 | Mary is 3 times as old as her son. In 12 years, Mary’s age will be 1 year less than twice her son’s age. How old is each now? |
| 2 | One number is 7 more than another. Twice the larger is equal to 4 times the smaller decreased by 2. Find both numbers. |
| 3 | The sum of two numbers is 15. When the larger is subtracted from 3 times the smaller the result is 1. Find the two numbers. |

Mathematical Modelling

Word Exercises 1 - **Solutions**

|  |  |
| --- | --- |
| 1 | One number is 3 times as large as another. Their sum is 28. Find the numbers.  First number = , second number =  First number = , second number = |
| 2 | One number is 3 less than another. Their sum is 21. Find the numbers.  First number = , second number =  First number = , second number = |
| 3 | One number is 5 more than another. Twice the larger is 12 less than 3 times the smaller. Find the numbers.  First number = , second number =  First number = , second number = 27 |
| 4 | One number is 4 more than another. Four times the smaller is equal to 3 times the larger increased by 1. Find the numbers.  First number = , second number =  First number = , second number = 19 |
| 5 | One number is 7 less than another. Seven times the smaller is equal to 5 times the larger decreased by 15. Find the numbers. 35  First number = , second number =  First number = , second number = |
| 6 | One number is 4 times as large as another. If the numbers are added together, the result is 6 less than 7 times the smaller. Find the numbers.  First number = , second number =  First number = , second number = |
| 7 | The sum of two numbers is 26. Twice the larger is 2 more than 8 times the smaller. Find the numbers.  First number = , second number =  First number = , second number = |
| 8 | The sum of two numbers is 18. The larger is 2 less than 4 times the smaller. Find the numbers.  First number = , second number =  First number = , second number = |
| 9 | The sum of two numbers is 13. Five times the smaller is 7 less than 4 times the larger. Find the numbers.  First number = , second number =  First number = , second number = |
| 10 | The sum of two numbers is 9. If 9 times the larger is subtracted from 12 times the smaller, the result is 3. Find the numbers.  First number = , second number =  First number = , second number = |

Word Exercises 2 - Solutions

1

|  |  |  |
| --- | --- | --- |
|  | Age now | Age in 12 year’s |
| Son |  |  |
| Mary |  |  |
| Therefore  Son is 11, Mary is 33 years old now | | |

2

|  |  |
| --- | --- |
| Numbers | Algebra |
| First |  |
| Second |  |
| Therefore  or    One number is 8 and the other is 15 | |

3

|  |  |  |
| --- | --- | --- |
|  | Numbers | Age in 12 year’s |
| First |  |  |
| Second |  |  |
| Therefore  First is 4 and second is 11. | | |