**NUMBERS, OPERATIONS AND RELATIONS**

**TERM 2 UNIT 2: WHOLE NUMBERS – ADDITION AND SUBTRACTION**

**EXERCISE 1**

**Column Method**

|  |
| --- |
| When adding in columns, remember to place the numbers in their correct positions.  For example: Th H T U  6 4 3 1  + 2 1 9 6  8 6 2 7  Check your answer by doing the opposite / inverse operation.  For example:  27 + 31 = 58; therefore 58 – 31 = 27 |

1.Use the column method to solve the following.

|  |  |  |  |
| --- | --- | --- | --- |
| a. 956 + 1 621 | b. 3 467 + 4 673 | c. 4 321 + 5 317 | d. 1 304 + 6 875 |

2. Use the column method and subtract.

|  |  |  |  |
| --- | --- | --- | --- |
| a. 1 234 - 914 | b. 6 713 – 4 610 | c. 8 284 – 2 733 | d. 9 998 – 5 729 |

**EXERCISE 2**

**Building up and breaking down numbers [addition].**

|  |
| --- |
| For example:  12 145 + 16 485 + 4 856  = [10 000 + 2 000 + 100 + 40 + 5] + [10 000 + 6 000 + 400 + 80 + 5] + [4 000 + 800 + 50 + 6]  = [10 000 + 10 000] + [2 000 + 6 000 + 4 000] + [100 + 400 + 800] + [40 + 80 + 50] + [5 + 5 + 6]  = [20 000] + [12 000] + [1 300] + [170] + [16]  = [20 000] + [10 000 + 2 000] + [1 000 + 300] + [100 + 70] + [10 + 6]  = 30 000 + 3 000 + 400 + 80 + 6  = 33 486 |

1. Solve the following by breaking down and building up numbers.

|  |
| --- |
| a. 3 164 + 9 671 |

|  |
| --- |
| b. 2 913 + 10 467 |

|  |
| --- |
| c. 8 134 + 12 971 |

**EXERCISE 3**

**Building up and breaking down numbers [subtraction].**

|  |
| --- |
| For example:  10 968 – 7 253  = [10 000 + 900 + 60 + 8] – [7 000 + 200 + 50 + 3]  = [10 000 + 900 + 60 + 8 – 7 000 – 200 – 50 – 3]  = [10 000 – 7 000] + [900 – 200] + [60 – 50] + [8 – 3]  = 3 000 + 700 + 10 + 5  = 3 715 |

1.Solve the following by breaking down and building up the numbers.

|  |
| --- |
| a. 41 754 – 3 641 |

|  |
| --- |
| b. 13 959 – 2 151 |

|  |
| --- |
| c. 16 755 – 12 143 |

**EXERCISE 4**

**Solve these word problems.**

1.Miss Zulu asks 130 Grade 5 learners in her school to choose between a Mammoth and a Sabre-tooth tiger: 34 learners say they like the Mammoth. 64 learners say they like the Sabre-tooth tiger. 25 said they liked both creatures. How many learners liked neither creature?

|  |
| --- |
|  |

2. Mom goes to the shop with her shopping list and comes home with the following:

**Shopping list:**

2 × 500 g bags of rice, 1 box of tea, 2 dozen eggs, 3 × 2 ***l***cartons of milk, 2 × 1 kg flour, 1 tin baking powder, 1 tin cocoa, 2 loaves of bread and 2 boxes of rice crispies.

**Price list in shop:**

Rice R15,50 per 250 g

Tea R10,45 per box

Eggs R12,85 per dozen

Milk R16,99 per 2 ***l***

Flour R22,99 per 1 kg

Baking powder R7,59 per tin

Cocoa R13,50 per tin

Bread R8,75 per loaf

Rice Crispies R23,99 per box

**Calculate:**

a. the price mom paid for milk.

|  |
| --- |
|  |

b. the amount mom paid for the cocoa and baking powder.

|  |
| --- |
|  |

c. how much more mom paid for the rice crispies than tea.

|  |
| --- |
|  |

d. how much mom paid for the flour and rice.

|  |
| --- |
|  |

3. Patrick paid R627,00 for his new Play-Station 3 game. If he gave the teller R700, how much change would he receive?

|  |
| --- |
|  |

4. Luke ran a race every Saturday for 4 weeks. The first Saturday he ran 25 km, the second Saturday he ran 18 km, the third Saturday he ran 42 km and the last Saturday he ran 10 km. How far did he run altogether?

|  |
| --- |
|  |

5. Mrs Botha takes the Grade 5’s on an excursion to the zoo. There are 2 teachers and 72 children in the grade. If the big bus seats 65, how many people need to go on the small school bus?

|  |
| --- |
|  |

6. A new car cost R89 995. If you pay cash, the price is reduced by R8 999. How much does the car cost if you pay cash?

|  |
| --- |
|  |

7. Tom bought a broken tractor for R16 450. After he has fixed it, he sold it for R34 249. How much money did Tom make?

|  |
| --- |
|  |