Unit 10 Addition Within 10 000

Unit 10(a): Addition Without Regrouping

TEACHINGAIDS

You will need:

1. A place value chart (hundreds, tens, ones)
2. Teacher's abacus
3. Pupil's abacus

TEACHING STEPS

1. Teacher shows how to add using a place value chart. The following number sentence is given:

$$4324 + 4063 = ?$$

2. Write down the numbers to be added in a place value chart.

	thousands	hundreds	tens	ones
	4	3	2	4
+	4	0	6	3

1. Guide pupils to apply their knowledge of basic addition facts to each place value, starting with the highest place value.

	thousands	hundreds	tens	ones
	4	3	2	4
+	4	0	6	3
	8			

	thousands	hundreds	tens	ones
	4	3	2	4
+	4	0	6	3
	8	**3**		

	thousands	hundreds	tens	ones
	4	3	2	4
+	4	0	6	3
	8	**3**	**8**	

	thousands	hundreds	tens	ones
	4	3	2	4
+	4	0	6	3
	8	**3**	**8**	**7**

2. The complete number sentence is:
    4324 + 4063 = 8387

3. Repeat the steps with a different number sentence, e.g.
    5607 + 1352 = ?

4. Pupils complete Worksheet 10(a).

Worksheet 10(a)
Addition Without Regrouping

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

Solve these problems by using the vertical form.

4 132 + 5 =	2 140 + 50 =
6 216 + 23 =	1 334 + 40 =
1 171 + 400 =	1 506 + 130 =
2 630 + 243 =	3 413 + 370 =

Unit 10(b): Addition With Regrouping

TEACHINGAIDS

You will need:

4. A place value chart (hundreds, tens, ones)
5. Teacher's abacus
6. Pupil's abacus

TEACHING STEPS

1. Teacher shows how to add using a place value chart. The following number sentence is given:

7208 + 1925 = ?

Rewrite the number sentence in a place value chart

thousands	hundreds	tens	ones
7	2	0	8
1	9	2	5

(+)

Add the ones:

8 ones+ 5 ones = 13 ones

= **1**ten **3** ones

(Write the digits 1 and 3 in the tens and ones place value respectively)

thousands	hundreds	tens	ones
7	2	0	8
1	9	2	5
		1	
			3

(+)

Add the tens:

0 tens + 2 tens + 1 ten = 3 tens

= **3** tens

thousands	hundreds	tens	ones
7	2	0	8
1	9	2	5
		1	
		3	**3**

(+)

Add the hundreds:

2 hundreds + 9 hundreds = 1 thousand 1 hundred

(Write the digits 1 and 1 in the thousands and hundreds place value respectively)

thousands	hundreds	tens	ones
7	2	0	8
1	9	2	5
1		1	
	1	**3**	**3**

(+)

Add the thousands:

7 thousands + 1 thousand + 1thousand = 9 thousands

thousands	hundreds	tens	ones
7	2	0	8
1	9	2	5
1		1	
9	**1**	**3**	**3**

(+)

3. The complete number sentence is as follows;

   7208 + 1925 = 9133

4. Have pupils perform the same calculation using the abacus.
5. Repeat the steps with another example.
6. Pupils complete Worksheet 10(b).

Worksheet 10(b)
Addition With Regrouping

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

Solve these problems by using the vertical form.

3 215 + 7 =	4 293 + 18 =
4 254 + 69 =	5 364 + 78 =
1 276 + 284 =	166 + 3 546 =
274 + 4 637 =	4 143 + 2 467 =

Test 10

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

Solve these problems.

1)
```
   8588
+   775
_____
```

2)
```
   1049
+  6271
_____
```

3)
```
    909
+  4541
_____
```

4)
```
   8799
+  1067
_____
```

5)
```
   4733
+  5267
_____
```

6)
```
   7302
+  2582
_____
```

7)
```
   3120
+  3341
_____
```

8)
```
   3117
+  6483
_____
```

9)
```
   2471
+  2022
_____
```

10)
```
   7249
+  1178
_____
```

11)
```
   1288
+  7686
_____
```

12)
```
   5969
+  1695
_____
```