

Unit 6 Subtraction Within 1000

Unit 6(a): Subtraction Without Regrouping

TEACHING AIDS

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 subtract using a place value chart. The following number sentence is given:

$$849 - 32 = ?$$

2. Rewrite the number sentence in a place value chart:

$$849 = 800 + 40 + 9$$

$$= 8 \text{ hundreds} + 4 \text{ tens} + 9 \text{ ones}$$

$$32 = 30 + 2$$

$$= 3 \text{ tens} + 2 \text{ ones}$$

First, subtract the ones:
9 ones - 2 ones = 7 ones

Next, subtract the tens:
4 tens - 3 tens = 1 ten

Finally subtract the hundreds:
8 hundreds - 0 hundred = 8 hundreds

hundreds	tens	ones
8	4	9
-	3	2

hundreds	tens	ones
8	4	9
-	3	2
		7

hundreds	tens	ones
8	4	9
-	3	2
	1	7

hundreds	tens	ones
8	4	9
-	3	2
8	1	7

3. Complete the number sentence

$$849 - 32 = 817$$

4. Have pupils perform the same calculation on the abacus.
5. Pupils complete Worksheet 6(a).

Worksheet 6(a)

Subtraction Without Regrouping

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

Solve these problems by using the vertical form.

$215 - 4 =$	$491 - 1 =$
$254 - 40 =$	$369 - 27 =$
$171 - 100 =$	$506 - 101 =$
$775 - 263 =$	$483 - 372 =$

Unit 6(b): Subtraction With Regrouping

TEACHING AIDS

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 subtract using a place value chart. The following number sentence is given:

$$45 - 28 = ?$$

2. Rewrite the number sentence in a place value chart:

$$\begin{aligned} 45 &= 40 + 5 \\ &= 4 \text{ tens} + 5 \text{ ones} \end{aligned}$$

$$\begin{aligned} 28 &= 20 + 8 \\ &= 2 \text{ tens} + 8 \text{ ones} \end{aligned}$$

First, subtract the ones.
8 cannot be subtracted from 5.

tens	ones
4	5
2	8

tens	ones
4	5
2	8

Exchange 1 tens for 10 ones. Now there are 15 ones.
15 ones - 8 ones = 7 ones

tens	ones
3	5
4	15
2	8
	7

Now, subtract the tens
3 tens - 2 tens = 1 tens

tens	ones
3	15
4	8
2	8
1	7

3. Have pupils perform the same calculation using the abacus.

4. Teacher shows another example. The following number sentence is given:

$$739 - 64 = ?$$

5. Rewrite the number sentence in a place value chart as follows:

$$739 = 700 + 30 + 9$$

$$= 7 \text{ hundreds} + 3 \text{ tens} + 9 \text{ ones}$$

$$64 = 60 + 4$$

$$= 6 \text{ tens} + 4 \text{ ones}$$

hundreds	tens	ones
7	3	9
	6	4

First, subtract the ones

hundreds	tens	ones
7	3	9
	6	4
		5

Next subtract the tens.
6 cannot be subtracted from 3.

hundreds	tens	ones
7	3	9
	6	4
		5

Exchange 1 hundreds for 10 tens
13 hundreds - 6 hundreds = 7 hundreds

hundreds	tens	ones
7 6	13	9
	6	4
	7	5

Finally subtract the hundreds
6 hundreds - 0 hundreds = 6 hundreds

hundreds	tens	ones
6 6	13	9
	6	4
	7	5

5. Complete the number sentence

$$739 - 64 = 675$$

6. Have pupils perform the same calculation using the abacus.

7. Pupils complete Worksheet 6(b).

Worksheet 6(b)

Subtract with Regrouping

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

Solve these problems by using the vertical form.

$132 - 28 =$	$257 - 65 =$
$423 - 296 =$	$837 - 184 =$
$565 - 358 =$	$860 - 71 =$
$724 - 197 =$	$558 - 489 =$

Test 6

Name:.....

Date:.....

Solve these problems.

1)

$$\begin{array}{r} 543 \\ - 434 \\ \hline \end{array}$$

2)

$$\begin{array}{r} 917 \\ - 584 \\ \hline \end{array}$$

3)

$$\begin{array}{r} 342 \\ - 134 \\ \hline \end{array}$$

4)

$$\begin{array}{r} 445 \\ - 389 \\ \hline \end{array}$$

5)

$$\begin{array}{r} 751 \\ - 182 \\ \hline \end{array}$$

6)

$$\begin{array}{r} 323 \\ - 177 \\ \hline \end{array}$$

7)

$$\begin{array}{r} 723 \\ - 356 \\ \hline \end{array}$$

8)

$$\begin{array}{r} 212 \\ - 153 \\ \hline \end{array}$$

9)

$$\begin{array}{r} 422 \\ - 234 \\ \hline \end{array}$$

10)

$$\begin{array}{r} 513 \\ - 124 \\ \hline \end{array}$$

11)

$$\begin{array}{r} 221 \\ - 155 \\ \hline \end{array}$$

12)

$$\begin{array}{r} 471 \\ - 188 \\ \hline \end{array}$$