MY Homework

Lesson 7

Subtract Across Zeros

Homework Helper

eHelp

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Makenna won 3,000 tickets playing an arcade game. She used 1,872 tickets to buy a prize. How many tickets does she have left?

$3,000 - 1,872 = \blacksquare$ ← Find the unknown.

Estimate $3,000 - 1,900 = 1,100$

1 Regroup 1 thousand, 1 hundred, and 1 ten.

```
    9  9
  2 1̶0 1̶0 10
  3̶, 0̶ 0̶ 0̶
 − 1, 8 7 2
```

2 Subtract, starting at the place farthest to the right.

```
    9  9
  2 1̶0 1̶0 10
  3̶, 0̶ 0̶ 0̶
 − 1, 8 7 2
   1, 1 2 8
```

Check

```
   1, 1 2 8
 + 1, 8 7 2
   3, 0 0 0
```
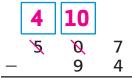
Addition shows the answer is correct.

1,128 is close to the estimate of 1,100. Estimation shows the answer is reasonable.

Practice

Subtract. Use addition to check.

1.
```
  4 | 10
  5̶   0̶   7
 −    9   4
  4 | 1 | 3
```
Check:
```
  1
  4 | 1 | 3
 +   | 9 | 4
  5 | 0 | 7
```

2.
```
        9
  7 | 1̶0 | 14
  8̶    0̶    4̶
 −  6    6    7
  1 | 3 | 7
```
Check:
```
  1   1
  1 | 3 | 7
 + 6 | 6 | 7
  8 | 0 | 4
```

3.
```
        9    9
  3 | 1̶0 | 1̶0 | 10
  4̶,   0̶    0̶    0̶
 −     9    6    9
  3, | 0 | 3 | 1
```
Check:
```
  1   1   1
  3, | 0 | 3 | 1
 +    | 9 | 6 | 9
  4, | 0 | 0 | 0
```

Subtract. Use addition to check your answer.

4.

	9		
6	~~10~~	10	
~~7,~~	~~0~~	~~0~~	5
−	9	4	1
6,	**0**	**6**	**4**

Check:

1	1		
6,	**0**	**6**	**4**
+	**9**	**4**	**1**
7,	**0**	**0**	**5**

5.

	9		
3	~~10~~	10	
~~4,~~	~~0~~	~~0~~	
−	1	5	3
2	**4**	**7**	

Check:

1	1	
2	**4**	**7**
+ **1**	**5**	**3**
4	**0**	**0**

6.

	9	9	
2	~~10~~	~~10~~	10
~~3,~~	~~0~~	~~0~~	~~0~~
− 1,	2	0	2
1,	**7**	**9**	**8**

Check:

1	1	1	
1,	**7**	**9**	**8**
+ **1,**	**2**	**0**	**2**
3,	**0**	**0**	**0**

Algebra Subtract to find the unknown.

7. $3,008 − $1,053 = ■

	9		
2	~~10~~	10	
$ ~~3,~~	~~0~~	~~0~~	8
−$ 1,	0	5	3
$ 1,	9	5	5

■ = **$1,955**

8. 8,200 − 875 = ■

	11	9	
7	~~1~~	~~10~~	10
~~8,~~	~~2~~	~~0~~	~~0~~
−		8	7	5
7,	3	2	5

■ = **7,325**

9. 9,001 − 3,860 = ■

	9		
8	~~10~~	10	
~~9,~~	~~0~~	~~0~~	1
− 3,	8	6	0
5,	1	4	1

■ = **5,141**

Problem Solving

Real World

Mathematical PRACTICE 2 **Understand Symbols** Write a number sentence.

10. A bag holds 5,300 seeds. Brandon plants 790 of the seeds. How many seeds are left?

4,510 seeds; 5,300 − 790 = 4,510

11. Amy's book has 500 pages. She has read 245 pages so far. How many pages does Amy have left to read?

255 more pages; 500 − 245 = 255

Test Practice

12. How many more points did Jocelyn score?

Ⓐ 64 points   Ⓒ 164 points

Ⓑ 74 points   Ⓓ 174 points

Jocelyn 1,040
Harrison 976