

Boost Free Lessons - Year 5 Maths

Lesson 5: Subtracting with Regrouping

Name: _____ Grade: _____ Date: _____

Worked Example 1

Work out $7\ 351 - 2\ 836$.

$$\begin{array}{r}
 \overset{6}{\cancel{7}}\ 1\ 3\ \overset{4}{\cancel{5}}\ 1\ 1 \\
 -\ 2\ 8\ 3\ 6 \\
 \hline
 4\ 5\ 1\ 5
 \end{array}$$

1. Start at the **ones**. $1 - 6$ will not work, so borrow from the tens.
2. Cross out the **5** in the tens and write **4**. Then put a small **1** in front of the 1, making it 11. Now $11 - 6 = 5$.
3. Tens: $4 - 3 = 1$. No borrowing needed here.
4. Hundreds: $3 - 8$ will not work, so cross out the **7** in the thousands and write **6**. Put a small **1** in front of the 3, making 13. Then $13 - 8 = 5$, and $6 - 2 = 4$.

$7\ 351 - 2\ 836 = 4\ 515$

Worked Example 2

Check the answer above using addition.

1. Subtraction and addition are **inverse** operations, so each undoes the other.
2. If $7\ 351 - 2\ 836 = 4\ 515$, then $4\ 515 + 2\ 836$ should give $7\ 351$.
3. Add them: $4\ 515 + 2\ 836 = 7\ 351$.
4. The answer matches, so the subtraction is correct.

$4\ 515 + 2\ 836 = 7\ 351$, so the answer is correct.

Remember: Start at the **ones**. If the top digit is too small, **cross out** the digit to its left, write one less, and put a small **1** in front of the digit you are working on.



Question 1: Work out the following.

1. $452 - 178$

2. $703 - 349$

3. $1\,264 - 587$

4. $3\,405 - 1\,728$

5. $5\,002 - 2\,649$

6. $6\,130 - 3\,847$

7. $8\,004 - 5\,276$

8. $9\,216 - 4\,589$



Question 2: Answer the following.

1. Estimate $8\,940 - 3\,120$ by rounding to the nearest thousand.
2. Work out $20\,004 - 12\,587$.
3. Check $4\,621 - 1\,838 = 2\,783$ using addition.
4. What must be subtracted from $6\,000$ to leave $2\,475$?
5. Work out $7\,000 - 2\,356$.
6. Find the difference between $12\,480$ and $8\,795$.



Question 3: Answer the following questions.

1. A shop had 4 500 items and sold 2 863. How many are left?
2. Two towns have populations of 18 240 and 12 675. What is the difference?
3. A tank holds 9 000 litres. 4 385 litres are used. How much remains?
4. Ben had \$5 000 and spent \$2 748. How much is left?
5. Estimate first, then work out $8\,105 - 3\,962$. Was your estimate close?





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Answers: Subtracting with Regrouping**Question 1**

1. 274
2. 354
3. 677
4. 1 677
5. 2 353
6. 2 283
7. 2 728
8. 4 627

Question 2

1. 6 000
2. 7 417
3. $2\,783 + 1\,838 = 4\,621$ (correct)
4. 3 525
5. 4 644
6. 3 685

Question 3

1. 1 637 items
2. 5 565 people
3. 4 615 litres
4. \$2 252
5. Estimate 4 000; exact answer 4 143, so the estimate was close.

