

Boost Free Lessons - Year 5 Maths

Lesson 4: Adding with Regrouping

Name: _____ Grade: _____ Date: _____

Worked Example 1

Work out $3\,476 + 2\,858$.

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

1. Line the numbers up so the ones, tens, hundreds and thousands are in columns.
2. Start at the **ones**: $6 + 8 = 14$. Write the 4 and carry the 1 into the tens.
3. Tens: $7 + 5 + 1$ carried = 13. Write the 3 and carry 1 into the hundreds.
4. Hundreds: $4 + 8 + 1 = 13$. Write 3, carry 1. Thousands: $3 + 2 + 1 = 6$.

$$3\,476 + 2\,858 = 6\,334$$

Worked Example 2

Estimate $4\,812 + 3\,179$ first, then check your answer is reasonable.

1. Rounding first tells you roughly what the answer should be.
2. $4\,812$ rounds to $5\,000$. $3\,179$ rounds to $3\,000$.
3. $5\,000 + 3\,000 = 8\,000$, so the answer should be close to $8\,000$.
4. The exact answer is $7\,991$, which is close to the estimate, so it is reasonable.

Estimate 8 000. Exact answer 7 991.

Remember: Line up the **columns**, start at the ones, and carry into the next column whenever a total reaches 10 or more. Estimate first to check your answer makes sense.



Question 1: Work out the following.

1. $246 + 178$

2. $537 + 285$

3. $1\,462 + 739$

4. $2\,856 + 1\,447$

5. $3\,908 + 2\,195$

6. $4\,673 + 3\,528$

7. $5\,049 + 2\,967$

8. $6\,384 + 1\,819$



Question 2: Answer the following.

1. Estimate $3\,120 + 4\,890$ by rounding to the nearest thousand.
2. Estimate $682 + 519$ by rounding to the nearest hundred.
3. Work out $12\,458 + 7\,693$.
4. Work out $1\,275 + 486 + 2\,130$.
5. What number must be added to $3\,460$ to make $5\,000$?
6. Check: is $2\,847 + 1\,962$ closer to $4\,000$ or $5\,000$?



Question 3: Answer the following questions.

1. A school raised \$2 465 in one term and \$1 878 in the next. How much in total?
2. A stadium seats 24 800 people. On Saturday 18 947 attended and on Sunday 21 356. How many attended over the two days?
3. Mia's book has 348 pages and Sam's has 275. How many pages altogether?
4. A farm harvested 4 620 kg of apples and 3 985 kg of pears. Find the total.
5. Estimate first, then work out $5\,892 + 4\,137$. Was your estimate close?





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Answers: Adding with Regrouping**Question 1**

1. 424
2. 822
3. 2 201
4. 4 303
5. 6 103
6. 8 201
7. 8 016
8. 8 203

Question 2

1. 8 000
2. 1 200
3. 20 151
4. 3 891
5. 1 540
6. 5 000 (it is 4 809)

Question 3

1. \$4 343
2. 40 303 people
3. 623 pages
4. 8 605 kg
5. Estimate 10 000; exact answer 10 029, so the estimate was very close.

