

Y5 Estimating Multi Step Problems

KS2 Y5 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

Estimate $38,615 + 24,290$ by rounding to the nearest 1,000.

Step 1 · Round each number

39,000 and 24,000

Step 2 · Add

$39,000 + 24,000 = 63,000$

Step 3 · Exact answer

62,905

Answer: Estimate 63,000; exact answer 62,905

Check: The exact answer is close to the estimate, so it is probably right ✓

2. Now try one with the steps

A garden centre had 12,450 visitors in May and 15,830 in June. 6,725 of them bought plants. How many did not buy plants?

Step 1 · Step 1: total visitors

Step 2 · Step 2: take away those who bought plants

Answer:

3. Practice

Have a go at each one. There is space underneath to work it out.

1. Round to the nearest 1,000 to estimate $27,800 + 41,350$.

2. Round to the nearest 10,000 to estimate $83,600 - 38,900$.

3. Estimate $196,400 + 302,800$ by rounding to the nearest 100,000.

4. Leon says $45,370 + 28,190 = 63,560$. Use an estimate to decide if he could be right. Write yes or no.
5. Work out $45,370 + 28,190$ exactly.
6. A library has 18,500 books. It buys 2,350 and gives away 1,200. How many books does it have now?
7. Asha has £3,250. She spends £1,475 on a holiday and £899 on a laptop. How much is left?
8. A town had 64,200 people. 3,850 moved away and 5,120 moved in. What is the new population?
9. A school needs £25,000 for a new playground. It has raised £9,640 and £8,725. How much more does it need?
10. There are 124,300 seats in three sections. Section A has 45,800 and section B has 39,650. How many are in section C?
11. Estimate first, then calculate: $72,045 - 18,960 + 6,315$.
12. A farmer picked 15,600 apples on Monday and 2,850 more on Tuesday than on Monday. How many apples did she pick altogether?
13. The sum of two numbers is 50,000. One number is 21,486. What is the difference between the two numbers?

14. Ravi's estimate for a sum was 80,000 to the nearest 10,000. His exact answer was 68,400. Could the exact answer be right? Write yes or no.

4. Before you hand it in

Answering only the first step of a two-step problem.

Re-read the question. Ask, "Have I answered what was asked?" Draw a bar model to see all the parts.

Estimating $61,890 - 18,240$ as $60,000 - 20,000 = 40,000$, then thinking the exact answer 43,650 is wrong.

An estimate is only roughly right. Rounding to the nearest 1,000 ($62,000 - 18,000 = 44,000$) gives a closer check.

Adding when the problem needs subtraction.

Look for what is happening: 'moved away', 'spent', 'how many more' and 'how much is left' often mean subtraction.