Year 6 - Rounding Whole Numbers — Lesson Guide

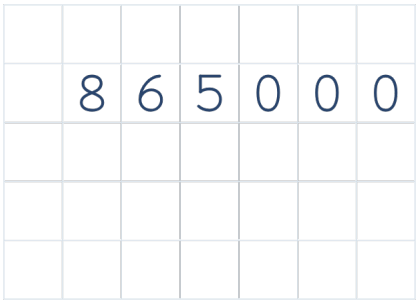
Step 1

865,000 to the nearest 100,000 = ☐

First, we read the question: 865,000 to the nearest 100,000. We underline 100,000 so we do not accidentally round to the wrong amount. As we are rounding to the nearest 100,000, our answer will be a multiple of 100,000, ending in at least five zeros.

Step 2

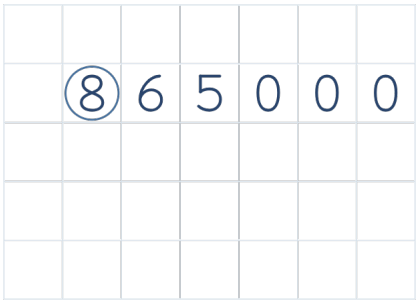
865,000 to the nearest 100,000 = ☐



Now, we write 865,000 in the correct columns, with one digit in each box. The first digit of 865,000, 8, is in the hundred thousands column, so we start there.

Step 3

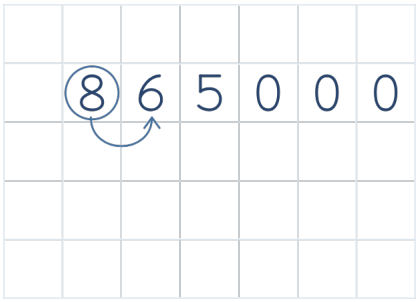
865,000 to the nearest 100,000 = ☐



Now, we circle the hundred thousands digit because we are rounding to the nearest 100,000.

Step 4

865,000 to the nearest 100,000 = ☐

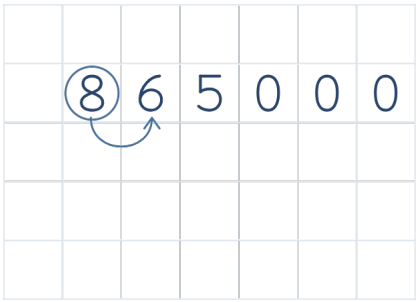


Remember: The circled digit marks the place to round to. The digit at the arrow tells us whether to round up.

The circled 8 marks the hundred thousands place. Draw a curved arrow from there to the 6 in the ten thousands place. That digit decides which way to round. Zero to four, stay on the floor. Five to nine, climb the vine.

Step 5

865,000 to the nearest 100,000 = ☐

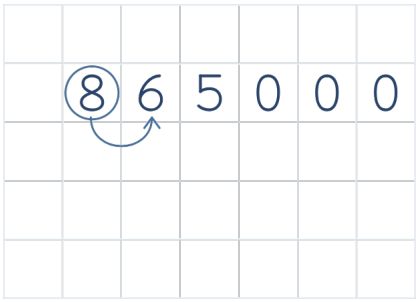


Remember: When we round down, the circled digit stays the same. When we round up, it increases by 1. If it reaches 10, write 0 and exchange into the next place.

6 is between 5 and 9, so we climb the vine and round up. We increase the hundred thousands place by one hundred thousand. All the digits to the right of the rounded place become 0.

Step 6

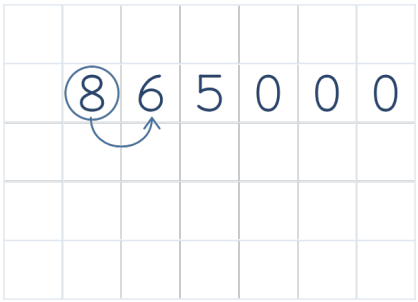
865,000 to the nearest 100,000 = 900000



Now, we write 900,000 directly in the answer box. 865,000 rounded to the nearest 100,000 is 900,000. Make sure you copy the answer correctly.

Step 7

865,000 to the nearest 100,000 = 900000



Check the rounding marks. The underline shows the nearest 100,000. The circle marks the 8 in the hundred thousands place. The arrow ends at the 6. The neighbouring multiples are 800,000 and 900,000. The halfway point is 850,000. 865,000 is closer to 900,000. That agrees with our rounded answer of 900,000.