

Y5 Counting Powers of Ten

KS2 Y5 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

Count on in steps of 10,000 from 254,300. Give the next three numbers.

Step 1 · The ten thousands digit is 5

It goes up by 1 each step

Step 2 · $5 \rightarrow 6 \rightarrow 7 \rightarrow 8$

264,300, 274,300, 284,300

Answer: 264,300, 274,300, 284,300

Check: Only the ten thousands digit changed ✓

2. Now try one with the steps

Count back in steps of 100,000 from 630,000.

Step 1 · The hundred thousands digit is 6

Step 2 · $6 \rightarrow 5 \rightarrow 4 \rightarrow 3 \dots$

Answer:

3. Practice

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

1. What is 10 more than 45,682?

2. What is 100 less than 307,450?

3. What is 1,000 more than 62,519?

4. What is 10,000 more than 418,207?

5. What is 100,000 less than 952,000?
6. Continue the sequence: 75,300, 85,300, 95,300, ____
7. What is the step size? 612,040, 613,040, 614,040, 615,040
8. Count back in 100,000s from 450,000: 350,000, 250,000, ... What is the smallest number in this count that is still above zero?
9. What is 100 more than 39,950?
10. What is 1,000 less than 700,400?
11. What is 10,000 more than 990,000?
12. Fill the gap: 580,612, ____, 600,612, 610,612
13. A number is 100,000 more than 263,815. What is the number 10 less than that?
14. Ellie counts on from 7,250 in steps of 1,000. Will she say 21,250? Write yes or no.

4. Before you hand it in

Writing 100 more than 39,950 as 39,1050.

10 hundreds make 1 thousand. $39,950 + 100 = 40,050$.

Changing the wrong digit, for example 10,000 more than 418,207 as 419,207.

Count the zeros in the step: 10,000 has four zeros, so the fifth digit from the right changes.

Writing 1,000 less than 700,400 as 600,400.

Exchange carefully: 700 thousands – 1 thousand = 699 thousands, so 699,400.