

Year 5: Counting in steps of 10, 100, 1,000, 10,000 and 100,000: answers

Year 5 - Place Value to 1,000,000 - Lesson 1.3

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/ks2-sats/maths/year-5/ch01-place-value/counting-in-steps-of-10-100-1-000-10-000-and-100-000/

Exercise 1C Counting in powers of 10 Non-calculator

1 Count on. Write the next three numbers each time.

(a) In 10s from 4,570

Answer: 4,580, 4,590, 4,600

(b) In 100s from 28,300

Answer: 28,400, 28,500, 28,600

(c) In 1,000s from 351,200

Answer: 352,200, 353,200, 354,200

(d) In 10,000s from 420,000

Answer: 430,000, 440,000, 450,000

2 Count back. Write the next three numbers each time.

(a) In 10s from 6,080

Answer: 6,070, 6,060, 6,050

(b) In 100s from 71,450

Answer: 71,350, 71,250, 71,150

(c) In 1,000s from 530,000

Answer: 529,000, 528,000, 527,000

(d) In 100,000s from 900,000

Answer: 800,000, 700,000, 600,000

3 Work out each number.

(a) 10 more than 7,995

Answer: 8,005

(b) 100 more than 54,950

Answer: 55,050

(c) 1,000 more than 249,500

Answer: 250,500

- (d) 10,000 more than 395,000

Answer: 405,000

- (e) 100,000 more than 299,999

Answer: 399,999

- (f) 10,000 more than 899,000

Answer: 909,000

4 Work out each number.

- (a) 10 less than 5,000

Answer: 4,990

- (b) 100 less than 30,050

Answer: 29,950

- (c) 1,000 less than 100,000

Answer: 99,000

- (d) 10,000 less than 205,000

Answer: 195,000

- (e) 100,000 less than 640,000

Answer: 540,000

- (f) 1,000 less than 700,500

Answer: 699,500

5 Write the missing numbers in each sequence.

- (a) 7,260, 7,270, 7,290

Answer: 7,250, 7,280

- (b) 850,000, 550,000, 450,000

Answer: 750,000, 650,000

- (c) 395,000, 397,000, 398,000,

Answer: 396,000, 399,000, 400,000

- (d) 600,000, 800,000, 1,000,000

Answer: 700,000, 900,000

- (e) 4,000, 3,700

Answer: 3,900, 3,800

6 Leo is counting on in the same-sized steps. Write the numbers that are missing from the number line.



Answer: 250,000, 260,000, 290,000, 310,000

7 Find the rule for each sequence. Then write the next two numbers.

(a) 5,320, 5,420, 5,520, 5,620...

Answer: Add 100; next terms 5,720, 5,820

(b) 800,000, 700,000, 600,000, 500,000...

Answer: Subtract 100,000; next terms 400,000, 300,000

(c) 204,000, 214,000, 224,000, 234,000...

Answer: Add 10,000; next terms 244,000, 254,000

(d) 8,090, 8,080, 8,070, 8,060...

Answer: Subtract 10; next terms 8,050, 8,040

8 Write the missing number in each box.

(a) $245,600 + \boxed{?} = 345,600$

Answer: 100,000

(b) $\boxed{?} - 1,000 = 87,500$

Answer: 88,500

(c) $630,000 - \boxed{?} = 620,000$

Answer: 10,000

(d) $\boxed{?} + 100 = 4,000$

Answer: 3,900

9 A video has been watched 48,500 times. It gets 10,000 more views every day. On which day does it first have more than 100,000 views?

Answer: Day 6 (108,500 views)

10 How many jumps are there?

(a) How many steps of 10,000 from 120,000 to 200,000?

Answer: 8

(b) How many steps of 100 from 3,500 to 4,200?

Answer: 7

(c) How many steps of 100,000 from 150,000 to 650,000?

Answer: 5

11 The mileage counter on a car shows 99,995 miles.

(a) What will it show after 10 more miles?

Answer: 100,005

(b) Another car shows 49,950 miles. What will it show after 100 more miles?

Answer: 50,050

12 A water tank holds 25,000 litres. Water runs out at 1,000 litres each minute.

(a) How much water is left after 7 minutes?

Answer: 18,000 litres

(b) How many minutes does it take for the tank to be empty?

Answer: 25 minutes

13 Sam says, "1,000 less than 300,000 is 200,000." Spot his mistake and give the correct answer.

Answer: 299,000

14 Is this always, sometimes or never true?

"When you add 1,000 to a number, only the thousands digit changes."

Answer: Sometimes

15 Zainab counts on in 10,000s from 5,000. Will she say 100,000? Prove it.

Answer: No

16 A sequence starts at 7,125. Each number is 1,000 more than the one before. What is the first number in the sequence that is more than 50,000? How many jumps is that?

Answer: 50,125 after 43 jumps