Year 5 maths: Count forwards and backwards in steps, including hundredths (Hard)

Maths · Number
Level: Hard

Student: _____ Date: _____

Instructions
- There are 10 questions. Read each one carefully.
- Write your answers on this paper. Use the space under a question to work it out.
- A grown-up can read a question aloud — that's fine.
- The answers are at the end. Check them together when you have finished.

Questions

1. What number comes next? 100 002, 99 002, 98 002, __

Circle one answer.

○ **A** 97 002 ○ **B** 97 902 ○ **C** 99 002

2. Look at the pattern: 120 005, 120 000, 119 995, __. Which number is next?

Circle one answer.

○ **A** 120 000 ○ **B** 119 985 ○ **C** 119 990

3. Count back in 1000s from 304 000. What is the fifth number you say after 304 000?

Answer: ☐

Working:

4. Count on in 0.01s. 8.49, 8.50, 8.51, __

Circle one answer.

○ **A** 8.61 ○ **B** 8.52 ○ **C** 8.50

5. Count back in hundredths: 5.03, 5.02, 5.01, __. What comes next?

Circle one answer.

○ **A** 4.10 ○ **B** 5.04 ○ **C** 5.00 ○ **D** 5.10

6. A rainwater tank gauge reads 9.34, 9.36, 9.38 kL after three hours. If it keeps filling at the same rate, what will it read after two more hours?

Circle one answer.

○ **A** 9.40 kL ○ **B** 9.42 kL ○ **C** 9.78 kL ○ **D** 9.042 kL

7. Which list counts on in steps of 0.05?

Circle one answer.

○ **A** 0.85, 0.86, 0.87, 0.88 ○ **B** 0.85, 0.90, 0.95, 0.100

○ **C** 0.85, 0.90, 0.95, 1.00 ○ **D** 0.85, 0.95, 1.05, 1.15

8. A pattern starts at 100 and subtracts 12.5 each time: 100, 87.5, 75, ___. What comes next?

Answer: ☐

Working:

9. A pattern adds 8, then subtracts 3, then repeats: 12, 20, 17, 25, 22, 30, ___. What comes next?

Answer: ☐

Working:

10. Counting back by 0.4: 6.4, ___, 5.6, 5.2. What is the missing number?

Answer: ☐

Working:

Answer key

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1. A — 97 002

Counting back in 1000s takes away 1000 each time: 98 002 − 1000 = 97 002.

2. C — 119 990

Counting back in 5s takes away 5 each time: 119 995 − 5 = 119 990.

3. 299 000

304 000, 303 000, 302 000, 301 000, 300 000, 299 000. The fifth number after 304 000 is 299 000.

4. B — 8.52

Count on by 0.01 each time. 8.51 + 0.01 = 8.52.

5. C — 5.00

5.01 is 1 hundredth above 5. One hundredth less is 5.00. Then 4.99.

6. B — 9.42 kL

Each hour adds 0.02 kL: 9.40, then 9.42.

7. C — 0.85, 0.90, 0.95, 1.00

Each number is 5 hundredths more: 0.85, 0.90, 0.95, 1.00.

8. 62.5

75 − 12.5 = 62.5.

9. 27

The last step was +8, so the next step is -3. 30 − 3 = 27.

10. 6

6.4 − 0.4 = 6.0. Check: 6.0 − 0.4 = 5.6.