Year 3 maths: Numbers to 10 000 (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. Ollie makes three claims about 5384. 1: Rounded to the nearest ten it is 5380. 2: Rounded to the nearest hundred it is 5300. 3: Rounded to the nearest thousand it is 5000. Which claims are correct?

Circle one answer.

○ **A** claim 1 only
○ **B** claims 1 and 2 only
○ **C** claims 1 and 3 only
○ **D** claims 2 and 3 only
○ **E** claims 1, 2 and 3

2. What is 10 more than 2995?

Answer: ☐

Working:

3. How much bigger is 6000 than 5874?

Circle one answer.

○ **A** 226 ○ **B** 874 ○ **C** 136 ○ **D** 126 ○ **E** 1126

4. Using the cards 4, 0, 9 and 2 once each, what is the largest 4-digit number less than 9000?

Answer: ☐

4	0	9	2

Working:

5. Each of these numbers is rounded to the nearest ten. Which number changes the most?

Circle one answer.

○ **A** 1238 ○ **B** 4127 ○ **C** 3419 ○ **D** 2345 ○ **E** 5199

6. A drink station is halfway between the 128 m mark and the 416 m mark of a fun run. At which mark is the drink station?

Circle one answer.

○ **A** 272 m ○ **B** 262 m ○ **C** 282 m ○ **D** 208 m ○ **E** 144 m

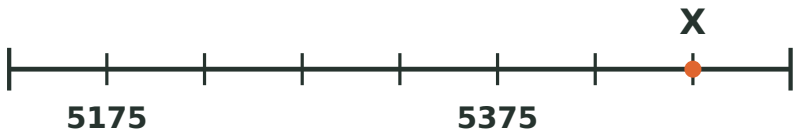
7. What is the total of three hundred and sixty, forty-one and seven?

Circle one answer.

○ **A** 308 ○ **B** 471 ○ **C** 360417 ○ **D** 408 ○ **E** 4017

8. Jacob drew this number line with equally spaced marks. What number should he write at X?

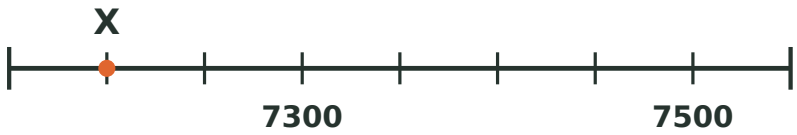
Circle one answer.



○ **A** 5455 ○ **B** 5425 ○ **C** 5475 ○ **D** 5395 ○ **E** 5525

9. The marks on this number line are equally spaced. X is to the left of the numbers. What number is at X?

Circle one answer.



○ **A** 7280 ○ **B** 7200 ○ **C** 7250 ○ **D** 7220 ○ **E** 7150

10. What is the difference between the values of the two 4s in 4734?

Circle one answer.

○ **A** 3996 ○ **B** 4004 ○ **C** 0 ○ **D** 3994 ○ **E** 4000

Answer key

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1. C — claims 1 and 3 only

Nearest ten: ones digit 4, round down to 5380 (true). Nearest hundred: tens digit 8, round up to 5400 (claim 2 false). Nearest thousand: hundreds digit 3, round down to 5000 (true).

2. 3005

9 tens + 1 ten = 10 tens = 1 hundred, then 10 hundreds = 1 thousand. 2995 + 10 = 3005.

3. D — 126

Count up: 5874 to 5900 is 26, 5900 to 6000 is 100. 26 + 100 = 126.

4. 4920

The thousands digit cannot be 9 (that would be 9000 or more), so use the next biggest, 4. Then the rest biggest first: 9, 2, 0. 4920.

5. D — 2345

1238 → 1240 changes 2. 2345 → 2350 changes 5. 3419 → 3420 changes 1. 4127 → 4130 changes 3. 5199 → 5200 changes 1. The most is 2345.

6. A — 272 m

The gap is 416 − 128 = 288 m. Half of 288 is 144. 128 + 144 = 272.

7. D — 408

360 + 41 = 401. 401 + 7 = 408.

8. C — 5475

5375 − 5175 = 200 in 4 jumps, so each jump is 50. X is 2 jumps past 5375: 5425, 5475.

9. B — 7200

7500 − 7300 = 200 in 4 jumps, so each jump is 50. X is 2 jumps before 7300: 7250, 7200.

10. A — 3996

The first 4 is in the thousands: 4000. The last 4 is in the ones: 4. 4000 − 4 = 3996.