Year 6 maths: Place value to 100 000 000 (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. Which numeral is four hundred and eight million, sixty thousand and thirty?

Circle one answer.

○ **A** 48 060 030 ○ **B** 408 060 030 ○ **C** 408 030 060 ○ **D** 40 860 030

2. What is the value of the 1 in 681 950 243?

Circle one answer.

○ **A** 1 ○ **B** 100 000 ○ **C** 1 000 000 ○ **D** 10 000 000

3. Which shows 305 020 400 split into place values?

Circle one answer.

○ **A** 300 000 000 + 5 000 000 + 20 000 + 400

○ **B** 30 000 000 + 500 000 + 2000 + 40

○ **C** 3 000 000 000 + 5 000 000 + 20 000 + 400

○ **D** 3 + 5 + 2 + 4

4. Which tells how many whole millions 905 130 000 has?

Circle one answer.

○ **A** 5 ○ **B** 90 ○ **C** 905 ○ **D** 9051

5. Round 246 381 205 to the nearest million.

Circle one answer.

○ **A** 250 000 000 ○ **B** 247 000 000 ○ **C** 246 000 000

○ **D** 246 381 205

6. What is 50 000 more than 49 950 000?

Circle one answer.

○ **A** 49 900 000 ○ **B** 50 000 000 ○ **C** 49 955 000 ○ **D** 50 450 000

7. The number 154 759 623 has two 5s. The first 5 is worth how many times the second 5?

Answer: ☐ times

Working:

8. What number is point A closest to?

Circle one answer.



○ **1** 75 000 000 ○ **2** 7 500 000 ○ **3** 25 000 000

○ **4** 750 000 000

9. Which number comes next? 98 750 000, 99 000 000, 99 250 000, ...

Circle one answer.

○ **A** 101 750 000 ○ **B** 99 275 000 ○ **C** 99 450 000

○ **D** 99 500 000

10. Which number rounds to 450 000 to the nearest 10 000 and to 500 000 to the nearest 100 000?

Circle one answer.

○ **A** 449 999 ○ **B** 447 960 ○ **C** 455 120 ○ **D** 452 880

Answer key

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1. B — 408 060 030

four hundred and eight million, sixty thousand and thirty is 408 060 030. A place with nothing in it is written as 0.

2. C — 1 000 000

The 1 is in the millions place, so it is worth 1 000 000.

3. A — 300 000 000 + 5 000 000 + 20 000 + 400

305 020 400 = 300 000 000 + 5 000 000 + 20 000 + 400. Each digit keeps its own place and a 0 holds an empty place.

4. C — 905

905 130 000 has 905 whole millions, counting all the bigger places too.

5. C — 246 000 000

Look at the digit just right of the millions place. It tells us to round down, and every place after becomes 0: 246 000 000.

6. B — 50 000 000

Change the ten thousands place and trade across when a digit passes 9 or has nothing to give: 49 950 000 + 50 000 = 50 000 000.

7. 1000 times

The first 5 is 3 places to the left of the second, so it is worth 1000 times as much.

8. 1 — 75 000 000

Each step is 25 000 000. A is 3 steps from 0, so it shows 75 000 000.

9. D — 99 500 000

The step is 250 000. 99 250 000 + 250 000 = 99 500 000.

10. D — 452 880

452 880 is nearer 450 000 than 460 000, and the ten thousands digit 5 means it rounds up to 500 000.