Year 6 maths: Decimals to thousandths and fractions (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 decimal is sixty-two and four thousandths?

Circle one answer.

○ **A** 62004 ○ **B** 62.4 ○ **C** 62.0004 ○ **D** 62.004

2. Write forty-eight and fifty-two thousandths as a decimal.

Answer: _____

Working:

3. Which shows 507.206 split into place values?

Circle one answer.

○ **A** 500 + 7 + 0.2 + 0.006 ○ **B** 5 + 7 + 2 + 6

○ **C** 500 + 7 + 0.02 + 0.0006 ○ **D** 500 + 7 + 0.2 + 0.06

4. Which number comes next? 0.996, 0.997, 0.998, ...

Circle one answer.

○ **A** 0.999 ○ **B** 0.9981 ○ **C** 1.008 ○ **D** 1.000

5. Write 0.024 as a fraction in simplest form.

Circle one answer.

○ **A** 1/24 ○ **B** 3/125 ○ **C** 24/100 ○ **D** 24/10000

6. Write 0.206 as a fraction with a denominator of 1000.

Circle one answer.

○ **A** 206/100 ○ **B** 206/1000 ○ **C** 206/10000 ○ **D** 1/206

7. 93 ÷ 1000 = ? Answer:

Working:

8. 0.046 × □ = 4.6. What number goes in the box?

Circle one answer.

○ **A** 100 ○ **B** 10 ○ **C** 0.01 ○ **D** 1000

9. Which is greater, 3.20 or 3.2?

Circle one answer.

○ **A** 3.2 ○ **B** They are equal ○ **C** 3.20

10. Which list is in order from smallest to largest?

Circle one answer.

○ **A** 3/5, 0.608, 61/100, 5/8 ○ **B** 61/100, 3/5, 0.608, 5/8

○ **C** 3/5, 0.608, 5/8, 61/100 ○ **D** 0.608, 3/5, 61/100, 5/8

Answer key

Year 6 maths: Decimals to thousandths and fractions (Hard) · Sheet 388558

1. D — 62.004
sixty-two and four thousandths is 62.004. A zero holds each place with nothing in it.

2. 48.052
forty-eight and fifty-two thousandths is 48.052. Every place with nothing in it is a 0.

3. A — 500 + 7 + 0.2 + 0.006
507.206 = 500 + 7 + 0.2 + 0.006. Each digit is worth its place: tenths, hundredths, thousandths.

4. A — 0.999
The step is 0.001. 0.998 + 0.001 = 0.999.

5. B — 3/125
0.024 = 24/1000. Divide the top and bottom by 8 to get 3/125.

6. B — 206/1000
0.206 has 3 places after the point, so it is 206 thousandths: 206/1000.

7. 0.093
Each digit moves 3 places right: 0.093.

8. A — 100
The digits moved 2 places left, so □ = 100.

9. B — They are equal
3.20 and 3.2 are the same size. A zero at the end of a decimal does not change its value.

10. A — 3/5, 0.608, 61/100, 5/8
As decimals: 0.6, 0.608, 0.61 and 0.625.