

Name

Date



PLACE VALUE TO 3DP SHEET 6

A) Write down the value of the underlined digit in each of the numbers below.

1) 34.526 → 0.5

2) 7.832 →

3) 23.594 →

4) 742.391 →

5) 931.372 →

6) 18293.726 →

7) 26371.659 →

8) 73298.327 →

9) 328371.648 →

B) Fill in the missing numbers.

1) $6 + 0.7 + 0.05 + 0.002 = \underline{\hspace{2cm}}$

11) $7.34 = 0.04 + \underline{\hspace{2cm}}$

2) $7 + \underline{\hspace{2cm}} = 7.56$

12) $\underline{\hspace{2cm}} + 6 + 0.4 = 6.47$

3) $8.327 = 8 + 0.3 + \underline{\hspace{2cm}} + 0.007$

13) $8 + \underline{\hspace{2cm}} + 0.003 = 8.823$

4) $\underline{\hspace{2cm}} = 9 + 0.3 + 0.06 + 0.001$

14) $0.09 + \underline{\hspace{2cm}} = 1.29$

5) $8 + \underline{\hspace{2cm}} = 8.651$

15) $6.392 = 6.002 + \underline{\hspace{2cm}}$

6) $7.5 + \underline{\hspace{2cm}} = 7.514$

16) $\underline{\hspace{2cm}} = 5 + 0.002 + 0.36$

7) $9 + 0.327 = \underline{\hspace{2cm}}$

17) $2 + 0.057 + \underline{\hspace{2cm}} = 2.157$

8) $\underline{\hspace{2cm}} = 5 + 0.007$

18) $\underline{\hspace{2cm}} + 6 + 0.04 = 6.241$

9) $0.3 + 0.008 = \underline{\hspace{2cm}}$

19) $7.327 = \underline{\hspace{2cm}} + 7 + 0.007$

10) $0.7 + 0.06 + 5 = \underline{\hspace{2cm}}$

20) $6.24 + \underline{\hspace{2cm}} = 6.248$

C) Work out the answer from the clues.

- I am a positive number less than 10.
- I have three decimal places.
- My ones digit is an even number.
- If you round me to the nearest whole number, I am 9.
- My tenths digit has the lowest value.
- My hundredths digit is the same as my ones digit.
- My thousandths digit is 4 more than my tenths digit.



Who am I?

Do you need all 7 of these clues to work out the answer?



PLACE VALUE TO 3DP SHEET 6 ANSWERS

A) Write down the value of the underlined digit in each of the numbers below.

$$1) \quad 34.\underline{5}26 \rightarrow 0.5$$

$$2) \quad 7.8\underline{3}2 \rightarrow \underline{0.03}$$

$$3) \quad \underline{2}3.594 \rightarrow \underline{20}$$

$$4) \quad 742.\underline{3}91 \rightarrow \underline{0.3}$$

$$5) \quad 931.37\underline{2} \rightarrow \underline{0.002}$$

$$6) \quad 18\underline{2}93.726 \rightarrow \underline{8000}$$

$$7) \quad 26371.65\underline{9} \rightarrow \underline{0.009}$$

$$8) \quad \underline{7}3298.327 \rightarrow \underline{70000}$$

$$9) \quad 328371.64\underline{8} \rightarrow \underline{0.008}$$

B) Fill in the missing numbers.

$$1) \quad 6 + 0.7 + 0.05 + 0.002 = \underline{6.752}$$

$$11) \quad 7.34 = 0.04 + \underline{7.3}$$

$$2) \quad 7 + \underline{0.56} = 7.56$$

$$12) \quad \underline{0.07} + 6 + 0.4 = 6.47$$

$$3) \quad 8.327 = 8 + 0.3 + \underline{0.02} + 0.007$$

$$13) \quad 8 + \underline{0.82} + 0.003 = 8.823$$

$$4) \quad \underline{9.361} = 9 + 0.3 + 0.06 + 0.001$$

$$14) \quad 0.09 + \underline{1.2} = 1.29$$

$$5) \quad 8 + \underline{0.651} = 8.651$$

$$15) \quad 6.392 = 6.002 + \underline{0.39}$$

$$6) \quad 7.5 + \underline{0.014} = 7.514$$

$$16) \quad \underline{5.362} = 5 + 0.002 + 0.36$$

$$7) \quad 9 + 0.327 = \underline{9.327}$$

$$17) \quad 2 + 0.057 + \underline{0.1} = 2.157$$

$$8) \quad \underline{5.007} = 5 + 0.007$$

$$18) \quad \underline{0.201} + 6 + 0.04 = 6.241$$

$$9) \quad 0.3 + 0.008 = \underline{0.308}$$

$$19) \quad 7.327 = \underline{0.32} + 7 + 0.007$$

$$10) \quad 0.7 + 0.06 + 5 = \underline{5.76}$$

$$20) \quad 6.24 + \underline{0.008} = 6.248$$

C) Work out the answer from the clues.

- I am a positive number less than 10.
- I have three decimal places.
- My ones digit is an even number.
- If you round me to the nearest whole number, I am 9.
- My tenths digit has the lowest value.
- My hundredths digit is the same as my ones digit.
- My thousandths digit is 4 more than my tenths digit.



Who am I?

Answer: 8.589

Do you need all 7 of these clues to work out the answer?

You can solve this challenge using only 5 clues. Clues 1 and 5 are not needed.