

Decimal place value – answers

Name _____ Date _____

 The missing words and numbers are shown in *red italic*.

DECIMAL PLACE VALUE CHARTS

(E2-E3) Fill in the gaps answer sheet

Number written in figures	H	T	U	●	1/10ths	1/100ths	1/1000ths	Number written in words and what the number means
0.08			<i>0</i>	●	<i>0</i>	<i>8</i>		<i>(Zero) point zero eight which means 0 units, 0 tenths, and 8 hundredths.</i>
<i>1.9</i>			1	●	9			<i>One point nine which means 1 unit and 9 tenths.</i>
2.5			<i>2</i>	●	<i>5</i>			<i>Two point five which means 2 units and 5 tenths.</i>
<i>6.7</i>			<i>6</i>	●	<i>7</i>			Six point seven which means 6 units and 7 tenths
<i>34.75</i>		3	4	●	7	5		<i>Thirty four point seven five which means 3 tens, 4 units, 7 tenths and 5 hundredths.</i>
<i>95.61</i>		<i>9</i>	<i>5</i>	●	<i>6</i>	<i>1</i>		Ninety five point six one which means 9 tens, 5 units, 6 tenths and 1 hundredth
101.01	<i>1</i>	<i>0</i>	<i>1</i>	●	<i>0</i>	<i>1</i>		<i>One hundred and one point zero one which means 1 hundred, 0 tens, 1 unit, no tenths and 1 hundredth.</i>
<i>153.07</i>	<i>1</i>	<i>5</i>	<i>3</i>	●	<i>0</i>	<i>7</i>		One hundred and fifty three point zero seven which means 1 hundred, 5 tens, 3 units, no tenths and 7 hundredths
(L1-L2) Fill in the gaps answer sheet								
0.089			<i>0</i>	●	<i>0</i>	<i>8</i>	<i>9</i>	<i>(Zero) point zero eight nine which means 0 units, 0 tenths, 8 hundredths and 9 thousandths.</i>
<i>1.75</i>			1	●	7	5		<i>One point seven five which means 1 unit, 7 tenths and 5 hundredths.</i>
<i>6.7</i>			<i>6</i>	●	<i>7</i>			Six point seven which means 6 units and 7 tenths.
<i>34.81</i>		3	4	●	8	1		<i>Thirty four point eight one which means 3 tens, 4 units, 8 tenths and 1 hundredth.</i>
101.101	<i>1</i>	<i>0</i>	<i>1</i>	●	<i>1</i>	<i>0</i>	<i>1</i>	<i>One hundred and one point one zero one which means 1 hundred, 0 tens, 1 unit, 1 tenth, 0 hundredths and 1 thousandth.</i>
<i>299.006</i>	<i>2</i>	<i>9</i>	<i>9</i>	●	<i>0</i>	<i>0</i>	<i>6</i>	Two hundred and ninety nine point zero zero six which means 2 hundreds, 9 tens, 9 units, 0 tenths, 0 hundredths and 6 thousandths.
789.2	<i>7</i>	<i>8</i>	<i>9</i>	●	<i>2</i>			<i>Seven hundred and eighty nine point two which means 7 hundreds, 8 tens, 9 units, and 2 tenths</i>
798.565	<i>7</i>	<i>9</i>	<i>8</i>	●	<i>5</i>	<i>6</i>	<i>5</i>	<i>Seven hundred and ninety eight point five six five which means 7 hundreds, 9 tens, 8 units, 5 tenths, 6 hundredths and 5 thousandths.</i>

Decimal place value – curriculum mapping and teaching ideas

Subject Content: Reformed Functional Skills Mathematics – Entry Level 3 & Level 1

✓ = main content descriptors covered in this resource, although these will vary with the student group and how the resource is used by the teacher. Content at each level subsumes and builds upon the content at lower levels. For a list of all content descriptors refer to:

DfE (Feb 2018) <https://www.gov.uk/government/publications/functional-skills-subject-content-mathematics>

1. Fundamental mathematical knowledge and skills These must be demonstrated in their own right, **both with and without a calculator**, in addition to being used to solve problems or complete tasks.

Entry Level 2	Entry Level 3	Level 1	Level 2
Using numbers and the number system (N)			
E2.2 Read, write, order and compare numbers up to 200 ✓ E2.11 Read, write and use decimals to one decimal place ✓	E3.1 Count, read, write, order and compare numbers up to 1000 ✓ E3.8 Read, write and use decimals up to two decimal places ✓	L1.1 Read, write, order and compare large numbers (up to one million) ✓ L1.3 Multiply and divide whole numbers and decimals by 10, 100, 1000 ✓ L1.10 Read, write, order and compare decimals up to three decimal places ✓	L2.1 Read, write, order and compare positive and negative numbers of any size ✓ L2.9 Order, approximate and compare decimals ✓

Teaching ideas

For almost all activities it is worth laminating the charts, and possibly enlarging to A3, for use with dry-wipe pens. Refer to the subject content above for the number of decimal places each level of learners is expected to use and understand. Note also that E2 learners are only expected to use whole numbers up to 200, E3 learners up to 1000, and Level 1 learners up to 1 million.

Pages 1-2

Handouts for learner reference – with gap fill exercises for consolidation and practice. The answers, on page 9, may also be useful for learners.

Pages 3-4 (empty charts with headings)

- Teacher reads out a decimal (e.g. “twenty six point five nine”) and learners write it down: firstly in the left hand column and then in the correct place value columns in the central area of the chart. Completing the final column could be optional or learners could answer this section verbally.
- Demonstrate and assist learners with multiplying or dividing whole numbers and decimals by 10, 100 or 1000. For example, ask learners to multiply 2.1 by 10 on a calculator. Then write down 21 and 2.1 in a suitable place value chart. What do learners notice? (Digits move one place value column to the left when multiplying by 10 or one place to the right when dividing by 10).
- Create your own gap-fill sheets – or learners could create some to swap with peers and complete.
- Write a selection of decimals on the whiteboard. Learners to write them in an appropriate chart in ascending or descending order. For E3 and higher include some numbers with 0s in the final decimal place. For example: write these numbers from smallest to largest: 2.1, 2.50, 2.02, 2.2.

Pages 5-8 (completely blank charts)

- As above but learners must fill in their own headings (either in advance or during the task).
- Use to practise reading, writing and ordering large whole numbers (with or without decimal places).
- For even larger whole numbers (or more decimal places!) simply add more lines with a ruler.

Entry Level extension ideas

- Discuss converting decimals (and decimal fractions) to simplified fractions. E.g. $2.5 = 2\frac{1}{2}$, $1.75 = 1\frac{3}{4}$.

If you are a skillsworkshop resource contributor you can request an editable Word version of this resource on a one-to-one exchange basis for your own resource contribution.

To become a registered resource contributor, please contact Maggie using the www.skillsworkshop.org site contact link.