

# Numeracy and Mathematics

## Number, Money and Measure

## Decimal Fractions

### Experiences and Outcomes

I have extended the range of whole numbers I can work with and having explored how decimal fractions are constructed, can explain the link between a digit, its place and its value. **MNU 2-02a**

I have explored the contexts in which problems involving decimal fractions occur and can solve related problems using a variety of methods. **MNU 2-03b**

### Benchmarks

Reads, writes and orders sets of decimal fractions to three decimal places.

Explains the link between a digit, its place and its value for numbers to three decimal places.

Partitions a wide range of whole numbers and decimal fractions to three decimal places, for example,  $3.6 = 3 \text{ ones and } 6 \text{ tenths} = 36 \text{ tenths}$ .

Adds and subtracts multiples of 10, 100 and 1000 to and from whole numbers and decimal fractions to two decimal places.

Adds and subtracts whole numbers and decimal fractions to two decimal places, within the number range 0 to 1 000 000.

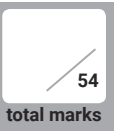
Multiplies and divides decimal fractions to two decimal places by 10, 100 and 1000.

Multiplies decimal fractions to two decimal places by a single digit.

Divides whole numbers and decimal fractions to two decimal places, by a single digit, including answers expressed as decimal fractions, for example,  $43 \div 5 = 8.6$ .

Name:

Date:



## Numeracy and Mathematics

### Number, Money and Measure | Decimal Fractions

1. Put these prices in order from lowest to highest:

£2.03	£3.20	£3.02	£0.32	£0.23	£2.30

6 marks

2. Put these measurements in order from longest to shortest:

11.01m	11.10m	11.011m	7.25m
7.52m	7.052m	7.502m	7.025m

8 marks

3. Look at these numbers:

7.652	8.25	9.03	10.157
12.45	14.106	17.32	20.967

4 marks

a) Which number has a 9 in the ones place?

b) Which number has a 2 in the tenths place?

c) Which number has a 0 in the hundredths place?

d) Which number has a 6 in the thousandths place?

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4. Partition these numbers to show the value of each of the digits:

a) 23.84

d) 15.67

b) 1.985

e) 54.29

c) 65.346

f) 17.732

6 marks

5. Find the answer:

a)  $27.19 - 10 =$

d)  $1239.84 - 300 =$

b)  $155.2 - 60 =$

e)  $117.64 - 110 =$

c)  $376.19 - 90 =$

f)  $3209.62 - 2000 =$

6 marks

6. Find the answer:

a)  $41.76 + 200 =$

d)  $130.5 + 240 =$

b)  $358.23 + 150 =$

e)  $983.11 + 90 =$

c)  $931.8 + 2000 =$

f)  $1430.82 + 1400 =$

6 marks

7. Find the answer:

a)  $14.82 + 12.9 =$

d)  $23.88 - 12.6 =$

b)  $12.99 + 5.78 =$

e)  $107.98 + 12.03 =$

c)  $16.72 + 4.7 =$

f)  $29.06 - 17.7 =$

6 marks

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8. Find the answer:

a)  $3.5 \times 2 =$

d)  $28.36 \div 4 =$

b)  $16.88 \div 4 =$

e)  $7.5 \times 5 =$

c)  $7.3 \times 6 =$

f)  $90.85 \div 5 =$

9. Find the answer:

a)  $12.24 \times 10 =$

c)  $17.1 \div 10 =$

b)  $23.45 \times 100 =$

d)  $234 \div 100 =$

10. In Jenny's shopping basket are:

- two boxes of tissues at £1.23 per box;
- four bottles of washing up liquid at £1.88 per bottle;
- two boxes of chocolates at £4.98 per box;
- one sack of dog food at £8.90.

a) What is her total shopping bill?

b) How much change will she get from two £20 notes?

\*\* END OF TEST \*\*

6 marks

4 marks

2 marks

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1	Put these prices in order from lowest to highest: £0.23, £0.32, £2.03, £2.30, £3.02, £3.20	6 marks
2	Put these measurements in order from longest to shortest: 11.10m, 11.011m, 11.01m, 7.52m, 7.502, 7.25m, 7.052m, 7.025m.	8 marks
3	Look at these numbers: 7.652, 8.25, 9.03, 10.157, 12.45 14.106, 17.32, 20.967 a) 9.03      c) 14.106 b) 8.25      d) 14.106	4 marks
4	Partition these numbers to show the value of each of the digits: a) 2 tens, 3 ones, 8 tenths and 4 hundredths b) 1 one, 9 tenths, 8 hundredths and 5 thousands c) 6 tens, 5 ones, 3 tenths, 4 hundredths and 6 thousandths d) 1 ten, 5 ones, 6 tenths and 7 hundredths e) 5 tens, 4 ones, 2 tenths and 9 hundredths f) 1 ten, 7 ones, 7 tenths, 3 hundredths and 2 thousandths	6 marks
5	Find the answer: a) 17.19      d) 939.84 b) 95.2        e) 7.64 c) 286.19     f) 1009.62	6 marks
6	Find the answer: a) 241.76      d) 370.5 b) 508.23      e) 1073.11 c) 2931.8      f) 2830.82	6 marks
7	Find the answer: a) 27.72      d) 11.28 b) 18.77      e) 120.01 c) 12.02      f) 11.36	6 marks
8	Find the answer: a) 7            d) 7.09 b) 4.22        e) 37.5 c) 43.8        f) 18.17	6 marks

9	Find the answer: a) 122.4      c) 1.71 b) 2345      d) 2.34	4 marks
10	In Jenny's shopping basket are: <ul style="list-style-type: none"><li>• two boxes of tissues at £1.23 per box;</li><li>• four bottles of washing up liquid at £1.88 per bottle;</li><li>• two boxes of chocolates at £4.98 per box;</li><li>• one sack of dog food at £8.90.</li></ul> a) $2 \times £1.23 = £2.46$ b) $£40 - £28.84 = £11.16$ $4 \times £1.88 = £7.52$ $2 \times £4.98 = £9.96$ $1 \times £8.90 = £8.90$ Total = £28.84	2 marks