Pupils should be taught to:	As outcomes, Year 4 pupils should, for example:
Round decimal fractions to the nearest whole number or the nearest tenth	

Recognise the equivalence between decimals and fractions	Know that, for example:
	  0.5 is equivalent to ½;
	  0.25 is equivalent to ¼;
	  0.75 is equivalent to ¾;
	  0.1 is equivalent to ¹⁄₁₀;
	particularly in the context of money and measurement.

Round decimals with one decimal place to the nearest whole number. For example:

- Round these to the nearest whole number:
  9.7   25.6   148.3
- Round these lengths to the nearest metre:
  1.5 m   6.7 m   4.1 m   8.9 m
- Round these costs to the nearest £:
  £4.27   £12.60   £14.05   £6.50

See also rounding up or down after division (page 57).

Recognise that, for example:
  0.07   is equivalent to $7/100$;
  6.35   is equivalent to $6^{35}/100$;
particularly in the context of money and measurement.

Respond to questions such as:

- Which of these decimals is equal to $19/100$?
  1.9   10.19   0.19   19.1

- Write each of these as a decimal fraction:
  $27/100$ $3/100$ $2^{33}/100$

Enter fractions into a calculator and interpret the display to find the equivalent decimal.
Predict the result before confirming.
For example:

$1/2$	one half	0.5
$1/4$	one quarter	0.25
$3/4$	three quarters	0.75
$1/10$	one tenth	0.1
$1/5$	one fifth or two tenths	0.2
$1/100$	one hundredth	0.01
$75/100$	75 hundredths or three quarters	0.75
$3/100$	three hundredths	0.03
$50/100$	fifty hundredths or one half	0.5

Appreciate that a number like 3.6 in a calculator display means £3.60 in the context of money, and that 67p is entered as 0.67 since it is $67/100$ of £1.

Round decimals with one or two decimal places to the nearest whole number. For example:

- Round these to the nearest whole number:
  19.7   25.68   148.39

Round decimals with two or more decimal places to the nearest tenth. For example:

- What is 5.28 to the nearest tenth?
- What is 3.82 to one decimal place?

See also rounding up or down after division (page 57).

Recognise that, for example:
  0.007   is equivalent to $7/1000$;
  6.305   is equivalent to $6^{305}/1000$;
particularly in the context of measurement.

Respond to questions such as:

- Which of these decimals is equal to $193/100$?
  1.93   10.193   0.193   19.13

- Write each of these decimals as a fraction:
  0.27   2.1   7.03   0.08

Continue to enter fractions into a calculator and interpret the display to find the equivalent decimal.
Predict the result before confirming.
For example:

$1/1000$	one thousandth	0.001
$1/8$	one eighth	0.125
$1/3$	one third	0.3333333
$2/3$	two thirds	0.6666666

Use a calculator to compare fractions. For example:

- Which of these two fractions is less?
  $7/8$ or $4/5$ $3/4$ or $11/14$

- Place these fractions in order:
  $7/20$, $6/15$, $13/40$, $8/25$