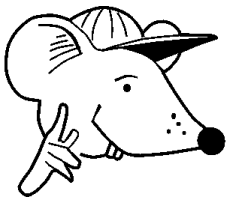
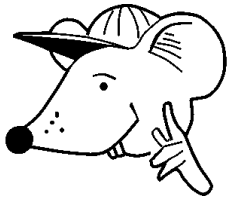
Back to Previous Menu



MATHEMATICS



N.S. Yr. 6 P.31

Round decimal fractions.
Recognise equivalence between decimals and fractions

Equipment

Paper, pencil, ruler
Fraction cards
Calculator

MathSphere

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Concepts

Children are expected to be able to round decimals with one or two decimal places to the nearest whole number.

Children need reminding about their year 5 work on rounding decimals They need to be shown again which digit is important when rounding decimals.

For instance, when rounding to the nearest tenth or to one decimal place, the hundredth digit is the important one to consider.

Further work of this kind is found in the rounding up and down after division.

The relationship between fractions and decimal fractions is a crucial one to develop further. This should be done with fractions up to thousandths.

Again, the calculator can be used, with the fraction e.g. **8/1000** being seen as a division sum: **8 ÷ 1 000 = 0.008**

A calculator can also be used to compare fractions.

Games such as snap, or matching cards, are very good ways of building this relationship. A number of cards can be found at the end of this module. It is suggested that they are photocopied onto card to give them extra strength.

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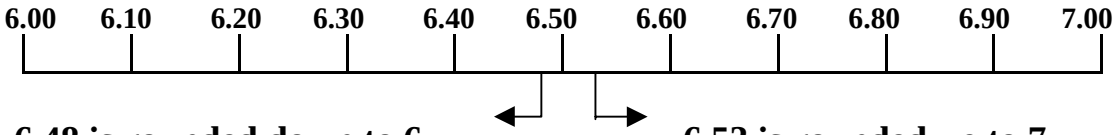
Rounding to the nearest whole one - revision

When rounding to the nearest whole one the important figure is the number of tenths. This is the first number after the decimal point.
If the tenths are 5 or above round to the next whole number.
If the tenths are below 5 round down - to the whole number as it already is.



6.48 is rounded down to 6 **6.53 is rounded up to 7**

There is no need to look at the hundredths, when rounding to the nearest whole one.

Round these amounts to the nearest whole one:

1. 6.71

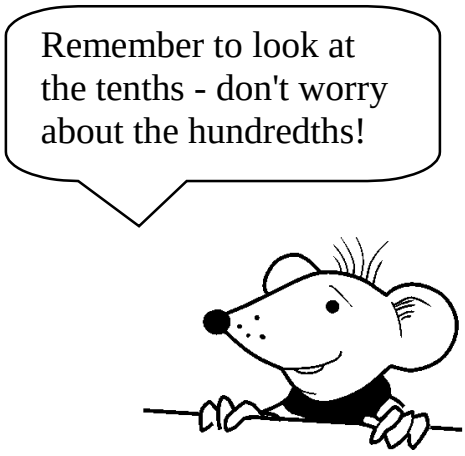
2. 2.88

3. 3.38

4. 4.5

5. 7.05

6. 6.2



Round these lengths to the nearest whole metre:

7. 5.56 m **8.** 8.23 m **9.** 4.15 m **10.** 22.9 m **11.** 16.66 m

12. 5.92 m **13.** 8.05 m **14.** 81.99 m **15.** 12.83 m **16.** 9.98 m

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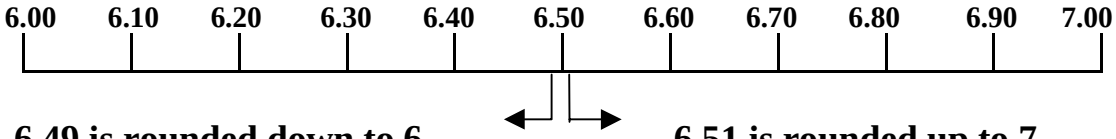
Rounding to the nearest whole one - revision

Remember to look at the first digit after the decimal point to decide whether to round up or down. If it is 5 or more, round up!



6.49 is rounded down to 6 **6.51 is rounded up to 7**

There is no need to look at the hundredths when rounding to the nearest whole one.

Round these amounts to the nearest whole one:

1. 7.77

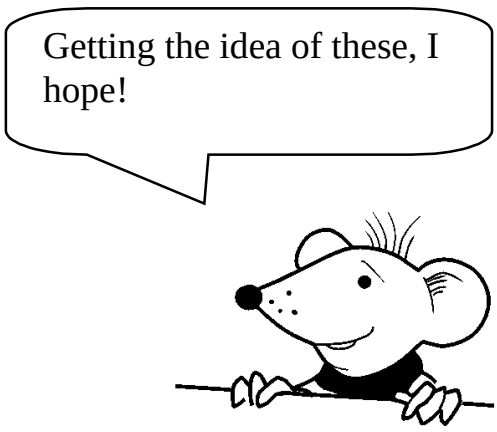
2. 6.66

3. 5.55

4. 4.44

5. 3.33

6. 2.22



Round these lengths to the nearest whole metre:

7. 8.17 m **8.** 3.04 m **9.** 16.98 m **10.** 10.54 m **11.** 6.90 m

12. 1.84 m **13.** 40.01m **14.** 76.99 m **15.** 15.90 m **16.** 2.41 m

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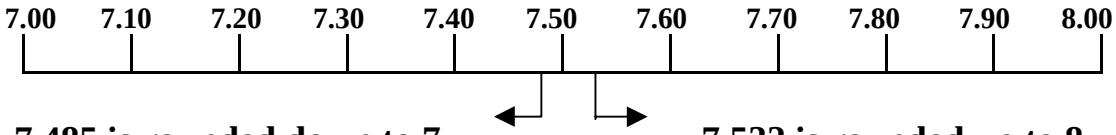
Rounding to the nearest whole one - thousandths

When rounding a number with thousandths into the nearest whole one, the important figure is still the number of tenths. This is the first number after the decimal point.
If the tenths are 5 or above round to the next whole number.
If the tenths are below 5 round down - to the whole number as it already is.



7.485 is rounded down to 7 **7.532 is rounded up to 8**

There is no need to look at the hundredths, or thousandths, when rounding to the nearest whole one.

Round these amounts to the nearest whole one:

1. 7.842

2. 3.909

3. 4.832

4. 4.588

5. 8.109

6. 7.327

Remember after the decimal point it's tenths, then hundredths, then thousandths!

Round these masses to the nearest whole kilogramme:

7. 5.567 kg **8.** 6.439 kg **9.** 2.199 kg **10.** 2.999 kg **11.** 4.567 kg

12. 9.524 kg **13.** 7.099 kg **14.** 7.277 kg **15.** 8.631 kg **16.** 9.009 kg

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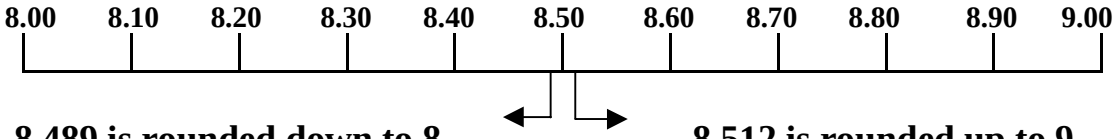
Rounding to the nearest whole one - revision

Remember to look at the first digit after the decimal point to decide whether to round up or down. If it is 5 or more, round up!



8.489 is rounded down to 8 **8.512 is rounded up to 9**

There is no need to look at the hundredths or thousandths when rounding to the nearest whole one.

Round these amounts to the nearest whole one:

1. 2.345

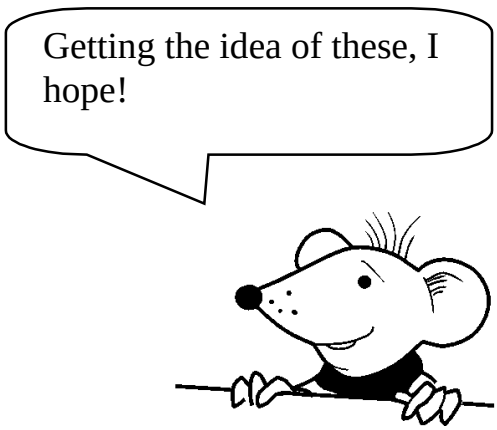
2. 3.456

3. 4.567

4. 5.678

5. 6.789

6. 7.890



Round these lengths to the nearest whole kilometre:

7. 9.270 km **8.** 4.089 km **9.** 7.455 km **10.** 6.288 km **11.** 1.009 km

12. 2.555 km **13.** 6.099 km **14.** 6.900 km **15.** 6.090 km **16.** 6.909 km

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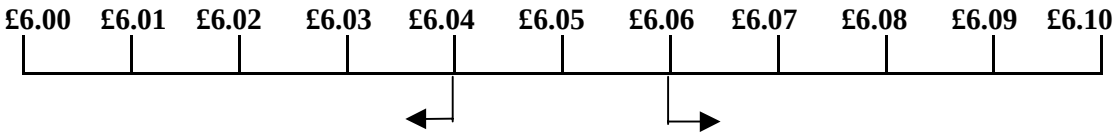
Rounding to the nearest tenth

When rounding to the nearest tenth it is the hundredth column which becomes important.



6.04 is rounded down to 6.0 **6.06 is rounded up to 6.1**

What are these amounts to the nearest ten pence (rounding to tenths):

1. £6.74

2. £2.81

3. £8.35

4. £8.42

5. £5.57

6. £1.23

Round these lengths to the nearest ten cm (nearest tenth):

7. 9.17 m **8.** 4.04 m **9.** 17.98 m **10.** 11.54 m **11.** 7.96 m

12. 2.84 m **13.** 50.03 m **14.** 86.99 m **15.** 25.92 m **16.** 3.41 m

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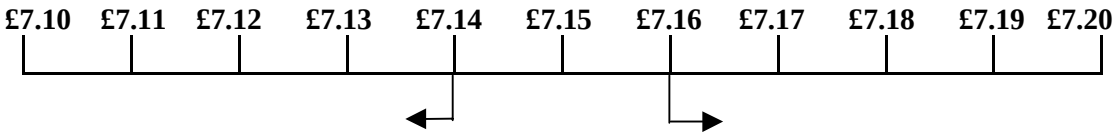
Rounding to the nearest tenth

When rounding to the nearest tenth it is the hundredth column which becomes important



7.14 is rounded down to 7.1 **7.16 is rounded up to 7.2**

What are these amounts to the nearest ten pence (rounding to tenths):

1. £8.77

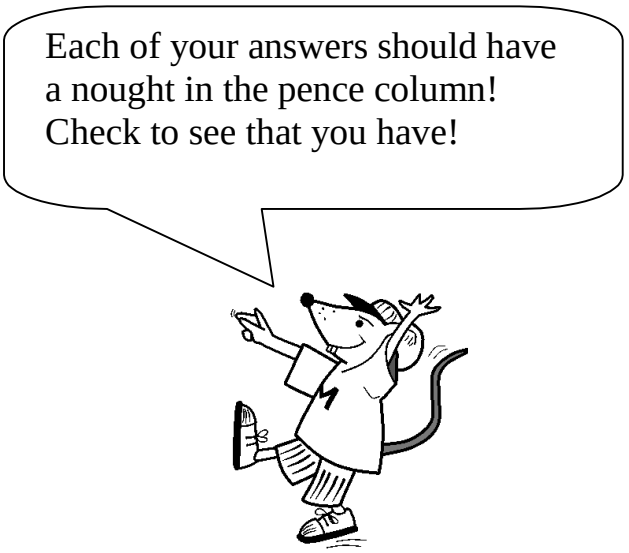
2. £4.51

3. £7.08

4. £12.73

5. £23.36

6. £17.77



Round these lengths to the nearest ten cm (nearest tenth):

7. 7.95 m **8.** 2.02 m **9.** 19.18 m **10.** 13.76 m **11.** 9.18 m

12. 4.06 m **13.** 52.75 m **14.** 8.02 m **15.** 27.77 m **16.** 5.93 m

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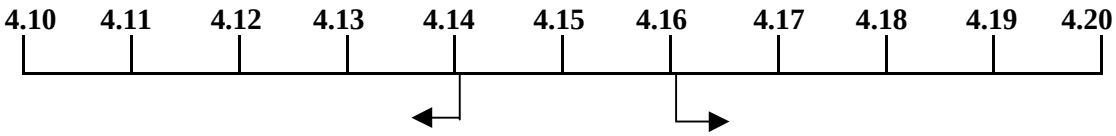
Rounding to the nearest tenth

When rounding to the nearest tenth it is the **hundredth** column which becomes important.



4.142 is rounded down to 4.1 **4.163 is rounded up to 4.2**

What are these lengths to the nearest tenth, or to one decimal place

1. 7.756 km

2. 3.288 km

3. 7.501 km

4. 8.455 km

5. 9.990 km

6. 7.001 km

Round these lengths to the nearest tenth (or one decimal place):

7. 8.08 m **8.** 5.05 m **9.** 16.87 m **10.** 22.43 m **11.** 6.17 m

12. 2.678 m **13.** 4.499 m **14.** 7.303 m **15.** 6.606 m **16.** 7.777 m

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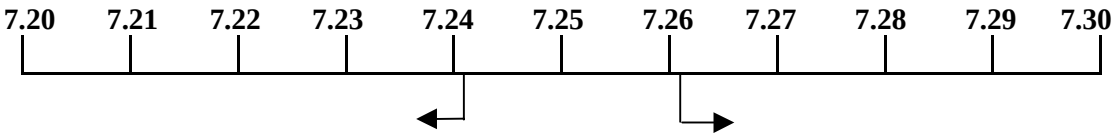
Rounding to the nearest tenth - revision

When rounding to the nearest tenth it is the hundredth column which becomes important



7.242 is rounded down to 7.2 **7.262 is rounded up to 7.3**

What are these lengths to the nearest tenth (or one decimal place):

1. 4.616 km

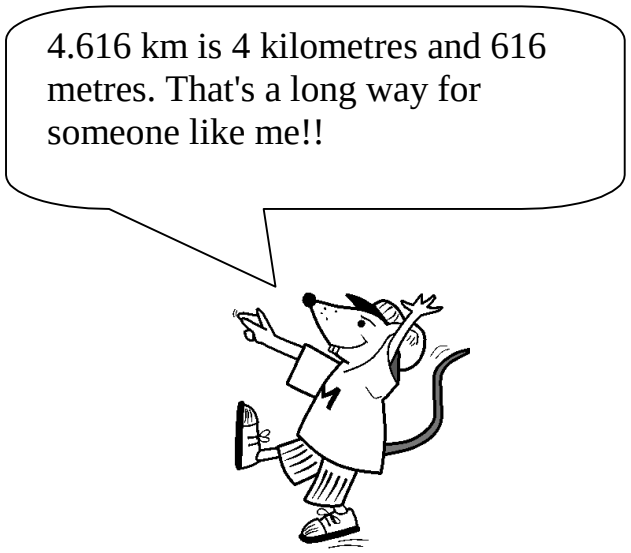
2. 1.029 km

3. 9.931 km

4. 8.949 km

5. 7.059 km

6. 0.066 km



Round these lengths to the nearest ten cm (nearest tenth):

7. 8.01 m **8.** 9.95 m **9.** 17.99 m **10.** 19.98 m **11.** 0.17 m

12. 6.72 m **13.** 55.55 m **14.** 1.09 m **15.** 22.22 m **16.** 7.65 m

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Fractions and decimal fractions

Most calculators do not display fractions as you usually write them.

Remember it is easy to change fractions into decimal fractions using a calculator.

$\frac{1}{2}$ means 1 divided by 2 or $1 \div 2$.

Do this on a calculator: enter $1 \div 2 =$

The answer 0.5 will come up.

This means that $\frac{1}{2}$ is the same as 0.5

In the same way, using a calculator, find the decimal fraction for these fractions. Complete all parts of the table below.

FRACTION	DECIMAL
$\frac{1}{2}$	
$\frac{2}{2}$	
$\frac{1}{3}$	
$\frac{2}{3}$	
$\frac{3}{3}$	
Can you see a pattern?	

FRACTION	DECIMAL
$\frac{1}{4}$	
$\frac{2}{4}$	
$\frac{3}{4}$	
$\frac{4}{4}$	
Can you see a pattern?	

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Converting fractions to decimals

In the same way as you completed page 7, complete the table below, putting in the fractions and decimal equivalence . Look for patterns all the time - some interesting numbers come up on your calculator!

FRACTION	DECIMAL
$\frac{1}{5}$	
$\frac{2}{5}$	
Can you see a pattern?	
$\frac{1}{6}$	
What is the pattern in the sixths?	

FRACTION	DECIMAL
$\frac{1}{7}$	
$\frac{2}{7}$	
Look hard for a pattern in the sevenths!	
$\frac{1}{8}$	
$\frac{8}{8}$	

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Converting fractions to decimals

Continue using your calculator to find the decimal equivalence of ninths and tenths. Fill in all the table for one ninth to nine ninths and one tenth to ten tenths. Look for patterns all the time - some interesting numbers come up on your calculator with the ninths!

FRACTION	DECIMAL
$\frac{1}{9}$	
$\frac{2}{9}$	
$\frac{9}{9}$	

Can you explain the pattern in the ninths?

FRACTION	DECIMAL
$\frac{1}{10}$	
$\frac{5}{10}$	
$\frac{10}{10}$	

Can you explain the pattern in the tenths?

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Equivalent Fractions

Having found all the decimals for fractions from $\frac{1}{2}$ to $\frac{10}{10}$ you might have noticed that some fractions give the same decimal.
For example:

$\frac{1}{2}$ **= 0.5 and** $\frac{2}{4}$ **also = 0.5**

This means that $\frac{1}{2}$ **and** $\frac{2}{4}$ **are equal.**

In the box below write down all the fractions, up to ten tenths, that are equal to those on the left:

FRACTION	EQUIVALENT FRACTIONS
$\frac{1}{2}$	
$\frac{2}{2}$	
$\frac{1}{3}$	
$\frac{1}{4}$	
$\frac{1}{5}$	

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Fractions and decimal fractions.

Remember it is easy to change fractions into decimal fractions using a calculator.

This can also be done with fractions with thousandths.

$\frac{1}{1000}$ means 1 divided by 1000 or $1 \div 1000$

Do this on a calculator: enter $1 \div 1\,000 =$

The answer 0.001 will come up.

This means that $\frac{1}{1000}$ is the same as 0.001 (one thousandth)

In the same way, using a calculator, find the decimal fraction for these fractions. Complete all parts of the table below.

FRACTION	DECIMAL
$\frac{1}{1000}$	
$\frac{2}{1000}$	
$\frac{3}{1000}$	
$\frac{4}{1000}$	
$\frac{5}{1000}$	
Can you see a pattern?	

FRACTION	DECIMAL
$\frac{21}{1000}$	
$\frac{31}{1000}$	
$\frac{41}{1000}$	
$\frac{51}{1000}$	
Can you see a pattern?	

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Converting decimals to fractions

0.1 is one tenth and can be written as $\frac{1}{10}$

0.01 is one hundredth and can be written as $\frac{1}{100}$

0.001 is one thousandth and can be written as $\frac{1}{1000}$

In the same way convert these decimals into fractions:

	decimal	written as…	fraction
1.	**0.7**	**is seven tenths**	$\frac{7}{10}$
2.	**0.5**	**is**	
3.	**0.03**	**is**	
4.	**0.004**	**is**	
5.	**0.09**	**is**	
6.	**0.03**	**is**	
7.	**0.009**	**is**	
8.	**0.04**	**is**	

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Converting decimals to fractions

0.21 is twenty one hundredths or $\frac{21}{100}$

0.456 is four hundred and fifty six thousandths or $\frac{456}{1000}$

0.021 is twenty one thousandths or $\frac{21}{1000}$

In the same way convert these decimals into fractions:

	decimal	written as…	fraction
1.	**0.15**	**is fifteen hundredths**	$\frac{15}{100}$
2.	**0.35**	**is**	
3.	**0.08**	**is**	
4.	**0.28**	**is**	
5.	**0.123**	**is**	
6.	**0.235**	**is**	
7.	**0.105**	**is**	
8.	**0.444**	**is**	

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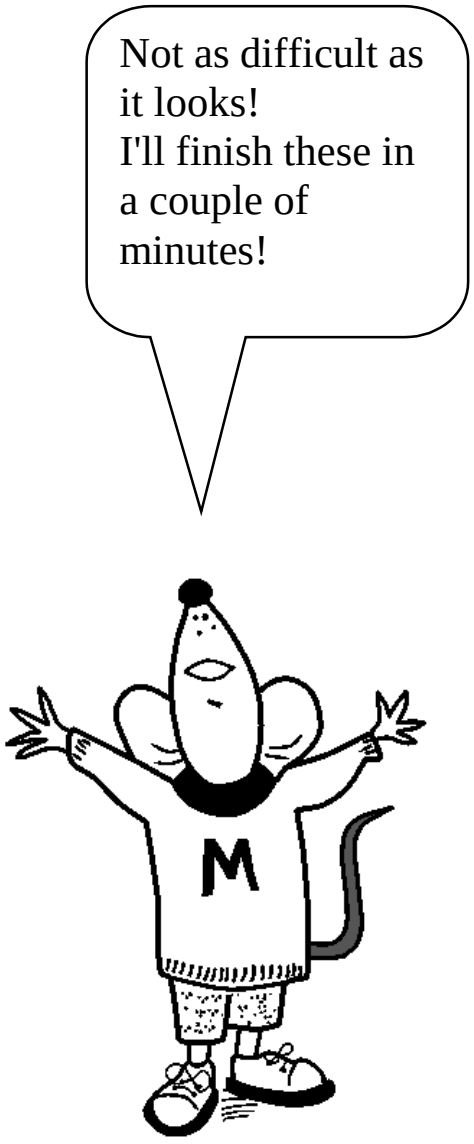
Mixed numbers as decimals

$5\frac{551}{1000}$ can be written as 5.551 when using a calculator.

Write these mixed numbers as decimal fractions:

1.	$7\frac{337}{1000}$ =
2.	$3\frac{665}{1000}$ =
3.	$1\frac{901}{1000}$ =
4.	$6\frac{25}{1000}$ =
5.	$3\frac{41}{1000}$ =
6.	$4\frac{2}{1000}$ =
7.	$2\frac{101}{1000}$ =
8.	$7\frac{333}{1000}$ =



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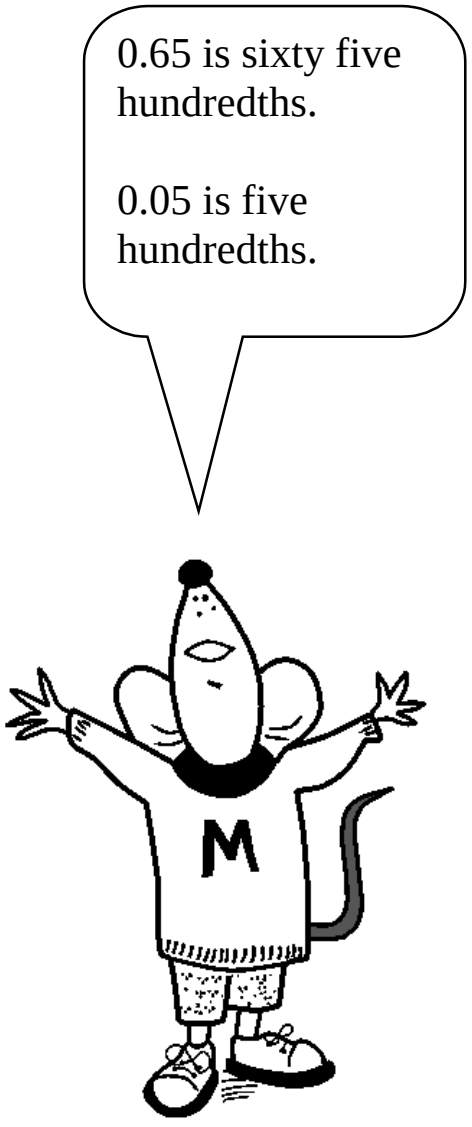
Mixed numbers as decimal fractions - extension

$5\frac{31}{100}$ can be written as 5.31 when using a calculator.

Write these mixed numbers as decimal fractions:

1.	$7\frac{47}{100}$
2.	$3\frac{85}{100}$
3.	$1\frac{91}{100}$
4.	$6\frac{5}{100}$
5.	$3\frac{61}{100}$
6.	$4\frac{4}{100}$
7.	$2\frac{1}{100}$
8.	$7\frac{3}{100}$



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Using calculator to decide size of fractions

When faced with fractions with different denominators (bottom numbers) it is often difficult to tell which is the larger fraction.

If the fractions are treated as division sums, then it is easy to use a calculator to work out which is the larger.

For example: which is larger; $\frac{3}{4}$ **or** $\frac{18}{25}$

$\frac{3}{4}$ is 0.75 whilst $\frac{18}{25}$ is 0.72 so $\frac{3}{4}$ is larger than $\frac{18}{25}$

Work out which is the larger fraction in each of these pairs of fractions:

1. $\frac{5}{9}$ **or** $\frac{67}{100}$

2. $\frac{13}{45}$ **or** $\frac{383}{999}$

3. $\frac{56}{60}$ **or** $\frac{8}{9}$

4. $\frac{12}{1000}$ **or** $\frac{7}{500}$

5. $\frac{17}{120}$ **or** $\frac{14}{101}$

6. $\frac{7}{60}$ **or** $\frac{56}{200}$

Use your calculator to place these fractions in order of size (smallest first) :

7. $\frac{3}{8}$ $\frac{4}{9}$ $\frac{43}{90}$ $\frac{21}{50}$ $\frac{467}{900}$

8. $\frac{9}{20}$ $\frac{3}{7}$ $\frac{28}{40}$ $\frac{179}{350}$ $\frac{143}{300}$

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Using calculator to decide size of fractions

When faced with fractions with different denominators (bottom numbers) it is often difficult to tell which is the larger fraction.

If the fractions are treated as division sums, then it is easy to use a calculator to work out which is the larger.

For example: which is larger; $\frac{4}{9}$ **or** $\frac{17}{38}$

$\frac{4}{9}$ is 0.444 whilst $\frac{17}{38}$ is 0.447 so $\frac{17}{38}$ is larger than $\frac{4}{9}$

Work out which is the larger fraction in each of these pairs of fractions:

1. $\frac{6}{11}$ **or** $\frac{517}{1000}$

2. $\frac{27}{80}$ **or** $\frac{353}{1000}$

3. $\frac{34}{70}$ **or** $\frac{5}{9}$

4. $\frac{13}{20}$ **or** $\frac{41}{60}$

5. $\frac{27}{114}$ **or** $\frac{13}{51}$

6. $\frac{9}{61}$ **or** $\frac{42}{300}$

Use your calculator to place these fractions in order of size, beginning with the smallest:

7. $\frac{4}{7}$ $\frac{5}{9}$ $\frac{43}{90}$ $\frac{20}{47}$ $\frac{199}{469}$

8. $\frac{12}{13}$ $\frac{45}{47}$ $\frac{241}{258}$ $\frac{13}{14}$ $\frac{133}{144}$

Answers

Page 3
1. 7 **2.** 3 **3.** 3 **4.** 5 **5.** 7 **6.** 6 **7.** 6m **8.** 8m
9. 4m **10.** 23m **11.** 17m **12.** 6m **13.** 8m **14.** 82m **15.** 13m **16.** 10m

Page 4
1. 8 **2.** 7 **3.** 6 **4.** 4 **5.** 3 **6.** 2 **7.** 8m **8.** 3m
9. 17m **10.** 11m **11.** 7m **12.** 2m **13.** 40m **14.** 77m **15.** 16m **16.** 2m

Page 5
1. 8 **2.** 4 **3.** 5 **4.** 5 **5.** 8 **6.** 7 **7.** 6 kg **8.** 6 kg **9.** 2 kg
10. 3 kg **11.** 5 kg **12.** 10 kg **13.** 7 kg **14.** 7 kg **15.** 9 kg **16.** 9 kg

Page 6
1. 2 **2.** 3 **3.** 5 **4.** 6 **5.** 7 **6.** 8 **7.** 9 km **8.** 4 km **9.** 7 km
10. 6 km **11.** 1 km **12.** 3 km **13.** 6 km **14.** 7 km **15.** 6 km **16.** 7 km

Page 7
1. £6.70 **2.** £2.80 **3.** £8.40 **4.** £8.40 **5.** £5.60 **6.** £1.20 **7.** 9.2m **8.** 4.0m
9. 18.0m **10.** 11.5m **11.** 8.0m **12.** 2.8m **13.** 50.0m **14.** 87.0m **15.** 25.9m **16.** 3.4m

Page 8
1. £8.80 **2.** £4.50 **3.** £7.10 **4.** £12.70 **5.** £23.40 **6.** £17.80 **7.** 8.0m **8.** 2.0m
9. 19.2m **10.** 13.8m **11.** 9.2m **12.** 4.1m **13.** 52.8m **14.** 8.0m **15.** 27.8m **16.** 5.9m

Page 9
1. 7 .8 km **2.** 3.3 km **3.** 7.5 km **4.** 8.5 km **5.** 10.0 km **6.** 7.0 km
7. 8.1 m **8.** 5.1 m **9.** 16.9 m **10.** 22.4 m **11.** 6.2 m **12.** 2.7 m
13. 4.5 m **14.** 7.3 m **15.** 6.6 m **16.** 7.8 m

Page 10
1. 4.6 km **2.** 1.0 km **3.** 9.9 km **4.** 8.9 km **5.** 7.1 km **6.** 0.1 km
7. 8.0 m **8.** 10.0 m **9.** 18.0 m **10.** 20.0 m **11.** 0.2 m **12.** 6.7 m
13. 55.6 m **14.** 1.1 m **15.** 22.2 m **16.** 7.7 m

Page 11 (recurring numbers after the decimal will depend on calculator)
1/2 = 0.5 2/2 = 1 1/3 = 0.3333333 2/3 = 0.6666666 3/3 = 1
1/4 = 0.25 2/4 = 0.5 3/4 = 0.75 4/4 = 1 Discuss patterns of numbers

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1/5 = 0.2 2/5 = 0.4 3/5 = 0.6 4/5 = 0.8 5/5 = 1
1/6 = 0.166667 2/6 = 0.333333 3/6 = 0.5 4/6 = 0.666667 5/6 = 0.833333 6/6 = 1
1/7 = 0.142857 2/7 = 0.285714 3/7 = 0.428571 4/7 = 0.571428
5/7 = 0.714285 6/7 = 0.857142 7/7 = 1
1/8 = 0.125 2/8 = 0.25 3/8 = 0.375 4/8 = 0.5 5/8 = 0.625 6/8 = 0.75
7/8 = 0.875 8/8 = 1
Discuss patterns in decimals

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1/9 = 0.111111 2/9 = 0.222222 3/9 = 0.333333 4/9 = 0.444444 5/9 = 0.555555
6/9 = 0.666666 7/9 = 0.777777 8/9 = 0.888888 9/9 = 1
1/10 = 0.1 2/10 = 0.2 3/10 = 0.3 4/10 = 0.4 5/10 = 0.5
6/10 = 0.6 7/10 = 0.7 8/10 = 0.8 9/10 = 0.9 10/10 = 1
Discuss patterns in decimals

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1/2 = 2/4 = 3/6 = 4/8 = 5/10
2/2 = 3/3 = 4/4 = 5/5 = 6/6 = 7/7 = 8/8 = 9/9 = 10/10 = 1
1/3 = 2/6 = 3/9 1/4 = 2/8 1/5 = 2/10

Page 15 (recurring numbers after the decimal will depend on calculator)

1/1000 = 0.001 2/1000 = 0.002 3/1000 = 0.003 4/1000 = 0.004 5/1000 = 0.005
discuss pattern shown
21/1000 = 0.021 31/1000 = 0.031 41/1000 = 0.041 51/1000 = 0.051 discuss

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1. 0.7 is seven tenths 7/10
2. 0.5 is five tenths 5/10
3. 0.03 is three hundredths 3/100
4. 0.004 is four thousandths 4/1000
5. 0.09 is nine hundredths 9/100
6. 0.03 is three hundredths 3/100
7. 0.009 is nine thousandths 9/1000
8. 0.04 is four thousandths 4/100

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1. 0.15 is fifteen hundredths 15/100
2. 0.35 is thirty five hundredths 35/100
3. 0.08 is eight hundredths 8/100
4. 0.28 is twenty eight hundredths 28/100
5. 0.123 is one hundred and twenty three thousandths 123/1000
6. 0.235 is two hundred and thirty five thousandths 235/1000
7. 0.105 is one hundred and five thousandths 105/1000
8. 0.444 is four hundred and forty four thousandths 444/1000

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1. 7.337 **2.** 3.665 **3.** 1.901 **4.** 6.025
5. 3.041 **6.** 4.002 **7.** 2.101 **8.** 7.333

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1. 7.47 **2.** 3.85 **3.** 1.91 **4.** 6.05 **5.** 3.61 **6.** 4.04 **7.** 2.01 **8.** 7.03

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1. 67/100 **2.** 383/999 **3.** 56/60 **4.** 7/500
5. 17/120 **6.** 56/200
7. 3/8 21/50 4/9 43/90 467/900
8. 3/7 9/20 143/300 179/350 28/40

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1. 6/11 **2.** 353/1000 **3.** 5/9 **4.** 41/60 **5.** 13/51 **6.** 9/61
7. 199/469 20/47 43/90 5/9 4/7
8. 12/13 133/144 13/14 241/258 45/47

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0.01	0.02
0.03	0.04
0.05	0.06
0.07	0.08
0.09	0.10
0.11	0.12

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1/100	2/100
3/100	4/100
5/100	6/100
7/100	8/100
9/100	10/100
11/100	12/100

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13/100	14/100
15/100	16/100
17/100	18/100
19/100	20/100
21/100	22/100
23/100	24/100

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0.13	0.14
0.15	0.16
0.17	0.18
0.19	0.20
0.21	0.22
0.23	0.24