

## Maths Assessment Year 6 Term 3: Fractions

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**This assessment section is in two parts.**

### Section A

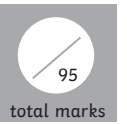
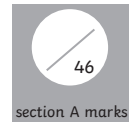
1. Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.
2. Compare and order fractions, including fractions  $> 1$ .
3. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
4. Multiply simple pairs of proper fractions, writing the answer in its simplest form.
5. Divide proper fractions by whole numbers.

### Section B

1. Associate a fraction with division and calculate decimal fraction equivalents.
2. Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.
3. Multiply one-digit numbers with up to two decimal places by whole numbers.
4. Use written division methods in cases where the answer has up to two decimal places.
5. Solve problems which require answers to be rounded to specified degrees of accuracy.
6. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

Name:

Date:



# Maths Assessment Year 6 Term 3: Fractions - Section A



1. Use common factors to simplify fractions; use common multiples to express fractions in the same denominator.

a) Simplify these fractions:

$\frac{15}{25}$	
$\frac{3}{9}$	
$\frac{4}{10}$	
$\frac{6}{8}$	
$\frac{6}{12}$	

b) Identify the equivalent fraction, using the denominators shown:

$\frac{2}{10}$	=	$\frac{\quad}{5}$
$\frac{12}{16}$	=	$\frac{\quad}{4}$
$\frac{8}{12}$	=	$\frac{\quad}{3}$
$\frac{10}{18}$	=	$\frac{\quad}{9}$
$\frac{9}{24}$	=	$\frac{\quad}{8}$

2. Compare and order fractions, including fractions > 1.

a) Put these fractions in order, from smallest to largest:

$1 \frac{1}{3}$	$1 \frac{1}{4}$	$\frac{1}{3}$	$\frac{4}{5}$	$1 \frac{1}{2}$	$\frac{3}{4}$
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smallest

largest

$\frac{5}{3}$	$\frac{5}{8}$	$\frac{2}{5}$	$\frac{8}{5}$	$\frac{2}{3}$	$\frac{7}{4}$
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smallest

largest



$\frac{3}{4}$	$\frac{13}{10}$	$1\frac{2}{3}$	$1\frac{2}{5}$	$\frac{4}{3}$	$1\frac{1}{8}$

smallest

largest

$\frac{15}{3}$	$4\frac{1}{2}$	$\frac{17}{4}$	$4\frac{1}{3}$	$\frac{11}{3}$	$5\frac{1}{3}$

smallest

largest

b) Use the symbols  $<$   $>$  or  $=$  to compare each pair of fractions:

	$<$ $>$ or $=$	
$\frac{1}{5}$		$\frac{3}{15}$
$1\frac{1}{5}$		$\frac{8}{5}$
$\frac{5}{4}$		$1\frac{1}{4}$
$\frac{11}{8}$		$1\frac{3}{8}$
$2\frac{3}{5}$		$\frac{5}{2}$
$\frac{13}{8}$		$1\frac{2}{5}$



2 marks



6 marks



2. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.

a) Complete these addition calculations. Write the answer in its simplest form, using mixed numbers where needed.

$\frac{1}{4} + \frac{1}{3} =$
$1\frac{2}{3} + \frac{3}{5} =$
$\frac{1}{8} + 1\frac{1}{3} =$
$\frac{7}{10} + 2\frac{3}{4} =$
$2\frac{1}{4} + 1\frac{5}{6} =$



5 marks



Total for this page

a) Complete these subtraction calculations. Write the answer in its simplest form, using mixed numbers where needed.

$\frac{4}{5} - \frac{3}{4} =$
$1 \frac{2}{5} - \frac{5}{6} =$
$2 \frac{2}{3} - \frac{7}{8} =$
$3 \frac{1}{2} - 1 \frac{2}{3} =$
$3 \frac{7}{8} - 2 \frac{1}{6} =$

5 marks

3. Multiply simple pairs of proper fractions, writing the answer in its simplest form.

a) Match up these calculations to their correct answer:

$\frac{3}{5} \times \frac{1}{2} =$	$\frac{7}{16}$
$\frac{5}{6} \times \frac{1}{3} =$	$\frac{3}{10}$
$\frac{3}{4} \times \frac{7}{12} =$	$\frac{7}{30}$
$\frac{7}{10} \times \frac{1}{3} =$	$\frac{5}{18}$

4 marks

b) Answer these calculations:

$\frac{1}{4} \times \frac{3}{5} =$
$\frac{2}{3} \times \frac{7}{8} =$
$\frac{5}{6} \times \frac{7}{12} =$
$\frac{7}{10} \times \frac{1}{2} =$

4 marks

4. Divide proper fractions by whole numbers.

d) Draw a line to match up each calculation to its correct answer:

$\frac{1}{4} \div 3 =$	$\frac{5}{12}$
$\frac{2}{3} \div 5 =$	$\frac{1}{12}$
$\frac{5}{6} \div 2 =$	$\frac{7}{60}$
$\frac{7}{10} \div 6 =$	$\frac{2}{15}$

4 marks

Total for this page

b) Answer these calculations:

$$\frac{4}{5} \div 3 =$$

$$\frac{7}{8} \div 4 =$$

$$\frac{8}{9} \div 7 =$$

$$\frac{5}{12} \div 9 =$$



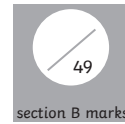
4 marks



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Name:

Date:



## Maths Assessment Year 6 Term 3: Fractions - Section B



1. Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction.

a) Find  $\frac{1}{6}$  of 210, showing the calculation(s) you would use:



2 marks

b) Find  $\frac{2}{5}$  of 160, showing the calculation(s) you would use:



2 marks

c) Convert  $\frac{7}{8}$  to a decimal:



1 mark

d) Convert 0.25 to a fraction, where the denominator is 16.



1 mark

2. Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.

1) In the numbers below, **circle the digit** that represents the place value written in words:

6.812	tenths
354.78	hundredths
1902.5629	thousandths
231.231	hundredths
0.0023	thousandths



5 marks



Total for this page

b) Write the value of the digit that is underlined:

1. <u>9</u> 03	
10. <u>7</u> 6	
402.0 <u>1</u> 3	
0.2 <u>4</u> 4	
0.03 <u>5</u> 3	

c) Fill in the missing numbers in these calculations:

$$\boxed{0.34} \times \boxed{\phantom{000}} = \boxed{3.4}$$

$$\boxed{0.002} \times \boxed{100} = \boxed{\phantom{000}}$$

$$\boxed{6.802} \times \boxed{\phantom{000}} = \boxed{6802}$$

$$\boxed{1.01} \times \boxed{1000} = \boxed{\phantom{000}}$$

$$\boxed{\phantom{000}} \times \boxed{100} = \boxed{5003}$$

d) Fill in the missing numbers in these calculations:

$$\boxed{345} \div \boxed{\phantom{000}} = \boxed{0.345}$$

$$\boxed{1.8} \div \boxed{100} = \boxed{\phantom{000}}$$

$$\boxed{603} \div \boxed{\phantom{000}} = \boxed{6.03}$$

$$\boxed{\phantom{000}} \div \boxed{1000} = \boxed{0.016}$$

$$\boxed{2.04} \div \boxed{10} = \boxed{\phantom{000}}$$

5 marks

5 marks

5 marks

Total for this page







d) £1 buys 1.4244 dollars. A traveller wants to buy £200 worth of dollars. How many dollars will they be able to buy, rounded to the nearest dollar?



2 marks

6. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

a) Fill in the missing information in this chart to identify the equivalent fractions, decimals and percentages:

Fraction	Decimal	Percentage
		25%
$\frac{2}{3}$		
	0.4	
$\frac{5}{8}$		
	0.3	
$\frac{9}{25}$		



6 marks

b) One fifth of the children in a school join a cricket club. What percentage of children do not join the cricket club?



1 mark

c) 25% of the children in a school bring sandwiches from home. What fraction of children do not bring sandwiches from home?



1 mark

d) Class 4 collect £100 for Children in Need. Class 3 collect  $\frac{7}{8}$  of the amount Class 4 collected. How much did Class 3 collect?



1 mark



Total for this page

# Answer Sheet: Maths Assessment Year 6 Term 3:

## Fractions - Section A



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b	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 5px;"><math>\frac{4}{5} \div 3 = \frac{4}{15}</math></td></tr> <tr><td style="padding: 5px;"><math>\frac{7}{8} \div 4 = \frac{7}{32}</math></td></tr> <tr><td style="padding: 5px;"><math>\frac{8}{9} \div 7 = \frac{8}{63}</math></td></tr> <tr><td style="padding: 5px;"><math>\frac{5}{12} \div 9 = \frac{5}{108}</math></td></tr> </table>	$\frac{4}{5} \div 3 = \frac{4}{15}$	$\frac{7}{8} \div 4 = \frac{7}{32}$	$\frac{8}{9} \div 7 = \frac{8}{63}$	$\frac{5}{12} \div 9 = \frac{5}{108}$	4					
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$\frac{5}{12} \div 9 = \frac{5}{108}$											
Section A Total:		46									

# Answer Sheet: Maths Assessment Year 6 Term 3:

## Fractions - Section B



question	answer	marks	notes																									
1. Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction.																												
a	$210 \div 6 = 35$	2	Award two marks for a correct answer. Award one mark for a correct method, but incorrect answer.																									
b	$160 \div 5 = 32$ $32 \times 2 = 64$	2																										
c	0.875	1																										
d	$\frac{4}{16}$	1																										
2. Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.																												
a	<table border="1"> <tr><td>6<del>8</del>12</td><td>tenths</td></tr> <tr><td>354.7<del>8</del></td><td>hundredths</td></tr> <tr><td>1902.56<del>2</del>9</td><td>thousandths</td></tr> <tr><td>231.2<del>3</del>1</td><td>hundredths</td></tr> <tr><td>0.00<del>2</del>3</td><td>thousandths</td></tr> </table>	6 <del>8</del> 12	tenths	354.7 <del>8</del>	hundredths	1902.56 <del>2</del> 9	thousandths	231.2 <del>3</del> 1	hundredths	0.00 <del>2</del> 3	thousandths	5	Award one mark for each digit correctly identified.															
6 <del>8</del> 12	tenths																											
354.7 <del>8</del>	hundredths																											
1902.56 <del>2</del> 9	thousandths																											
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b	<table border="1"> <tr><td>1.<del>9</del>03</td><td>nine tenths</td></tr> <tr><td>10.7<del>6</del></td><td>six hundredths</td></tr> <tr><td>402.01<del>3</del></td><td>three thousandths</td></tr> <tr><td>0.2<del>4</del>4</td><td>four hundredths</td></tr> <tr><td>0.03<del>5</del>3</td><td>five thousandths</td></tr> </table>	1. <del>9</del> 03	nine tenths	10.7 <del>6</del>	six hundredths	402.01 <del>3</del>	three thousandths	0.2 <del>4</del> 4	four hundredths	0.03 <del>5</del> 3	five thousandths	5	Accept numbers written as words or numerals (e.g. nine or 9). Do not accept tens, hundreds or thousands in place of tenths, hundredths or thousandths.															
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10.7 <del>6</del>	six hundredths																											
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c	<table border="1"> <tr><td>0.34</td><td>x</td><td>10</td><td>=</td><td>3.4</td></tr> <tr><td>0.002</td><td>x</td><td>100</td><td>=</td><td>0.2</td></tr> <tr><td>6.802</td><td>x</td><td>1000</td><td>=</td><td>6802</td></tr> <tr><td>1.01</td><td>x</td><td>1000</td><td>=</td><td>1010</td></tr> <tr><td>50.03</td><td>x</td><td>100</td><td>=</td><td>5003</td></tr> </table>	0.34	x	10	=	3.4	0.002	x	100	=	0.2	6.802	x	1000	=	6802	1.01	x	1000	=	1010	50.03	x	100	=	5003	5	Award one mark for each box correctly filled.
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d	<table border="1"> <tr><td>345</td><td>÷</td><td>1000</td><td>=</td><td>0.345</td></tr> <tr><td>1.8</td><td>÷</td><td>100</td><td>=</td><td>0.018</td></tr> <tr><td>603</td><td>÷</td><td>100</td><td>=</td><td>6.03</td></tr> <tr><td>16</td><td>÷</td><td>1000</td><td>=</td><td>0.016</td></tr> <tr><td>2.04</td><td>÷</td><td>10</td><td>=</td><td>0.204</td></tr> </table>	345	÷	1000	=	0.345	1.8	÷	100	=	0.018	603	÷	100	=	6.03	16	÷	1000	=	0.016	2.04	÷	10	=	0.204	5	
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question	answer	marks	notes																					
<b>3. Multiply one-digit numbers with up to two decimal places by whole numbers.</b>																								
a	0.6	1																						
b	1.089	1																						
<b>4. Use written division methods in cases where the answer has up to two decimal places.</b>																								
a	134.2 or 134 r1	2	Award 2 marks for a correct answer. Award 1 mark for evidence of a correct calculation, but an incorrect answer.																					
b	62.75	2	Award 2 marks for a correct answer. Award 1 mark for evidence of a correct calculation, but an incorrect answer. Do not accept answers where the remainder has not been written as a decimal.																					
<b>5. Solve problems which require answers to be rounded to specified degrees of accuracy.</b>																								
a	27 bags	2	Award 2 marks for a correct answer. Award 1 mark for evidence of a correct calculation, but an incorrect answer.																					
b	7 packs (5 tables, so $30 \times 5 = 150$ pencils, 6 packs = 144 pencils, 7 packs = 168 pencils, so needs 7 packs)	2																						
c	£127.13	2																						
d	\$285 (\$284.88 is rounded)	2																						
<b>6. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</b>																								
a	<table border="1"> <thead> <tr> <th>Fraction</th> <th>Decimal</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td><math>\frac{1}{4}</math></td> <td><b>0.25</b></td> <td>25%</td> </tr> <tr> <td><math>\frac{2}{3}</math></td> <td><b>0.67</b></td> <td>67%</td> </tr> <tr> <td><math>\frac{2}{5}</math> or <math>\frac{4}{10}</math></td> <td>0.4</td> <td>40%</td> </tr> <tr> <td><math>\frac{5}{8}</math></td> <td><b>0.625</b></td> <td>62.5%</td> </tr> <tr> <td><math>\frac{3}{10}</math></td> <td>0.3</td> <td>30%</td> </tr> <tr> <td><math>\frac{9}{25}</math></td> <td><b>0.36</b></td> <td>36%</td> </tr> </tbody> </table>	Fraction	Decimal	Percentage	$\frac{1}{4}$	<b>0.25</b>	25%	$\frac{2}{3}$	<b>0.67</b>	67%	$\frac{2}{5}$ or $\frac{4}{10}$	0.4	40%	$\frac{5}{8}$	<b>0.625</b>	62.5%	$\frac{3}{10}$	0.3	30%	$\frac{9}{25}$	<b>0.36</b>	36%	6	1 mark for each correctly completed line. Accept a recurring answer for $\frac{2}{3}$
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$\frac{9}{25}$	<b>0.36</b>	36%																						
b	80%	1																						
c	$\frac{3}{4}$	1																						
d	£87.50	1																						
Section B Total:		49																						
Overall Total:		95																						