

Name:



Maths Assessment Year 3 Term 3: Fractions

1. Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.
2. Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.
3. Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.
4. Recognise and show, using diagrams, equivalent fractions with small denominators.
5. Add and subtract fractions with the same denominator within one whole [for example, $\frac{6}{7}$].
6. Compare and order unit fractions, and fractions with the same denominators.
7. Solve problems that involve all of the above.

Name:

Date:

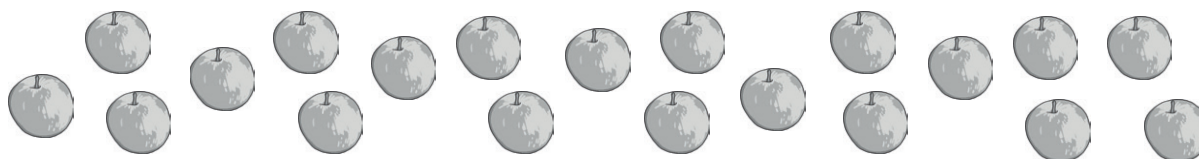
Maths Assessment Year 3 Term 3: Fractions

1. Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.

a) Complete the missing boxes in this sequence:

				$\frac{4}{10}$	$\frac{3}{10}$	$\frac{2}{10}$
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b) Ring $\frac{8}{10}$ of these apples.

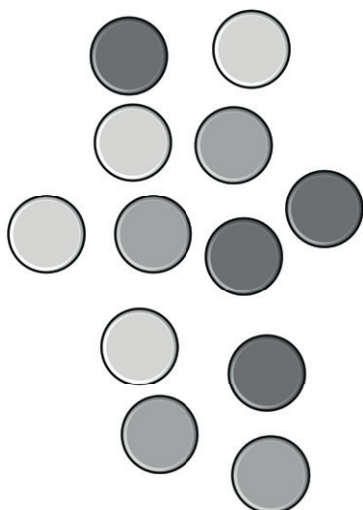


c) Write the answer to this calculation as a fraction.

$4 \div 10 =$

2. Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.

There are 12 counters on the table. Calculate:



$\frac{1}{2}$ of 12 =

$\frac{1}{4}$ of 12 =

$\frac{3}{4}$ of 12 =

$\frac{1}{6}$ of 12 =

$\frac{2}{3}$ of 12 =

1 mark

1 mark

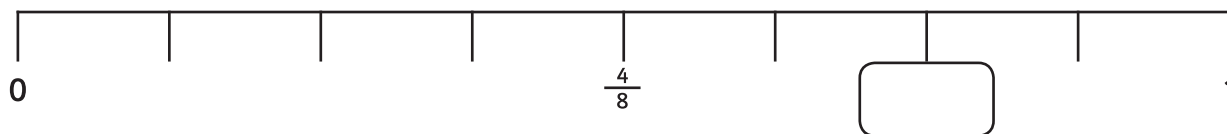
1 mark

5 marks

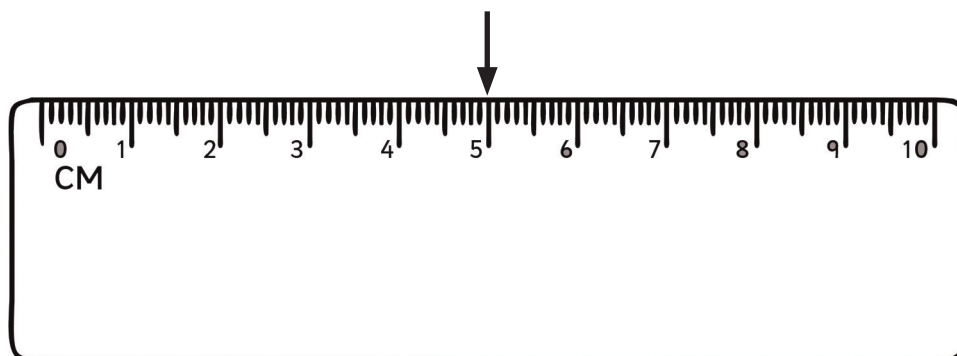
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3. Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.

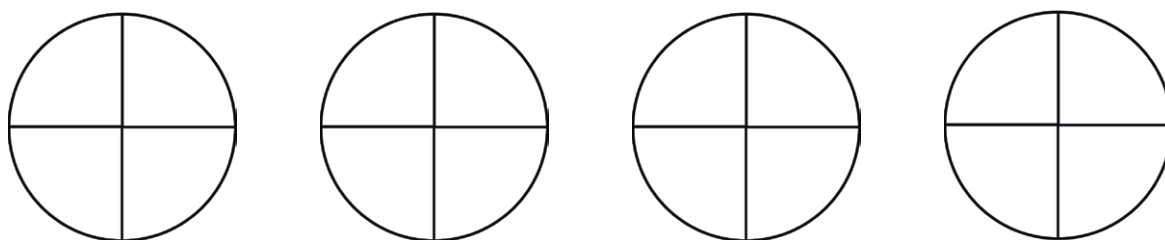
a) Write the missing fraction in the box on the number line.



b) The arrow on the ruler shows 5cm. Draw an arrow to show $8\frac{1}{2}$ cm.



c) Shade $2\frac{3}{4}$ of these shapes.



4. Recognise and show, using diagrams, equivalent fractions with small denominators.

a) Ring the fractions that are equivalent to $\frac{1}{2}$.

$$\frac{3}{6}$$

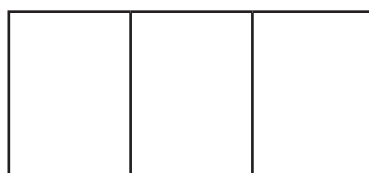
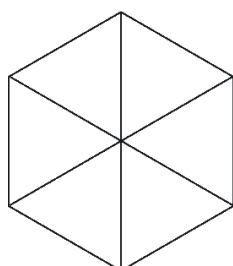
$$\frac{5}{8}$$

$$\frac{2}{4}$$

$$\frac{3}{7}$$

$$\frac{6}{12}$$

b) Shade the same fraction of these 2 shapes.



1 mark

1 mark

1 mark

2 marks

1 mark

Total for this page

5. Add and subtract fractions with the same denominator within one whole.

$$\frac{2}{9} + \frac{5}{9} = \boxed{}$$

$$\frac{7}{8} - \frac{5}{8} = \boxed{}$$

2 marks

6. Compare and order unit fractions, and fractions with the same denominators.

Write these fractions in order of size, smallest first:

$$\frac{1}{3} \quad \frac{1}{5} \quad \frac{1}{2} \quad \frac{1}{8}$$

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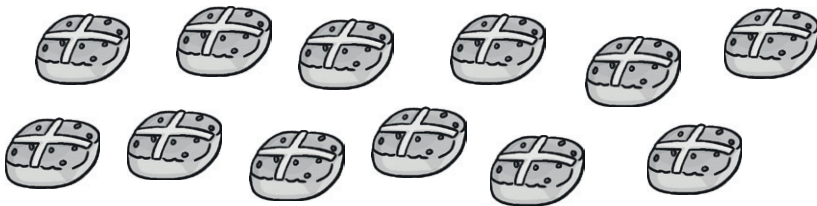
smallest

largest

1 mark

7. Solve problems that involve all of the above.

a) Janet has 12 buns. Her friends and her eat $\frac{1}{3}$ of them? How many do they have left?



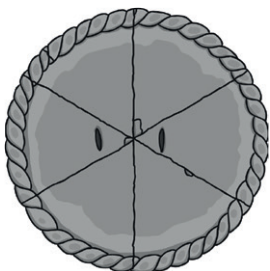
1 mark

b) Jack and Chen have 12 sweets each. Jack eats $\frac{1}{3}$ of his sweets. Chen eats $\frac{1}{4}$ of her sweets.

Who eats more sweets?

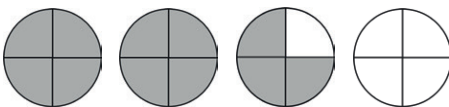
1 mark

c) Tom bakes an apple pie. If he cuts it into 6 pieces, and serves $\frac{1}{3}$ of the pie. How many pieces are left?



1 mark

Total for this page

question	answer	marks	notes							
1. Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.										
a	<table><tr><td>$\frac{8}{10}$</td><td>$\frac{7}{10}$</td><td>$\frac{6}{10}$</td><td>$\frac{5}{10}$</td><td>$\frac{4}{10}$</td><td>$\frac{3}{10}$</td><td>$\frac{2}{10}$</td></tr></table>	$\frac{8}{10}$	$\frac{7}{10}$	$\frac{6}{10}$	$\frac{5}{10}$	$\frac{4}{10}$	$\frac{3}{10}$	$\frac{2}{10}$	1	
$\frac{8}{10}$	$\frac{7}{10}$	$\frac{6}{10}$	$\frac{5}{10}$	$\frac{4}{10}$	$\frac{3}{10}$	$\frac{2}{10}$				
b	16 apples circled	1								
c	$\frac{4}{10}$	1	Accept $\frac{2}{5}$ or any other equivalent.							
2. Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.										
	$\frac{1}{2}$ of 12 = 6 $\frac{1}{4}$ of 12 = 3 $\frac{3}{4}$ of 12 = 9 $\frac{1}{6}$ of 12 = 2 $\frac{2}{3}$ of 12 = 8	5	Award 1 mark for each correct answer.							
3. Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.										
a	$\frac{6}{8}$	1								
b	arrow pointing to $8\frac{1}{2}$	1								
c		1	Award the mark as long as 11 segments are shaded.							
4. Recognise and show, using diagrams, equivalent fractions with small denominators.										
a	$\frac{3}{6}, \frac{2}{4}, \frac{6}{12},$	2	2 marks for all correct. 1 mark for 2 correct with neither incorrect fractions ringed.							
b	Same fraction shaded in each shape: $\frac{2}{6}$ of hexagon and $\frac{1}{3}$ of rectangle $\frac{4}{6}$ of hexagon and $\frac{2}{3}$ of rectangle $\frac{6}{6}$ of hexagon and $\frac{3}{3}$ of rectangle (all of each)	1	Allow 1 mark if children have shaded half of each, or any other equal fraction, where the children have only shaded parts of a segment.							
5. Add and subtract fractions with the same denominator within one whole.										
	$\frac{2}{9} + \frac{5}{9} = \boxed{\frac{7}{9}}$ $\frac{7}{8} - \frac{5}{8} = \boxed{\frac{2}{8}}$	2	Award 1 mark for each correct answer.							

question	answer	marks	notes				
6. Compare and order unit fractions, and fractions with the same denominators.							
	<table border="1"> <tr> <td>$\frac{1}{8}$</td><td>$\frac{1}{5}$</td><td>$\frac{1}{3}$</td><td>$\frac{1}{2}$</td></tr> </table>	$\frac{1}{8}$	$\frac{1}{5}$	$\frac{1}{3}$	$\frac{1}{2}$	1	All must be correct for the mark.
$\frac{1}{8}$	$\frac{1}{5}$	$\frac{1}{3}$	$\frac{1}{2}$				
7. Solve problems that involve all of the above.							
a	8	1	1 mark for showing they eat 4.				
b	Jack	1					
c	4 slices are left	1					
		Total 20					