Name:

Maths Assessment Year 3 Term 2: 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, 6/7].

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

7. Solve problems that involve all of the above.

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Maths Assessment Year 3 Term 2: 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:

$\frac{2}{10}$		$\frac{4}{10}$			$\frac{7}{10}$	

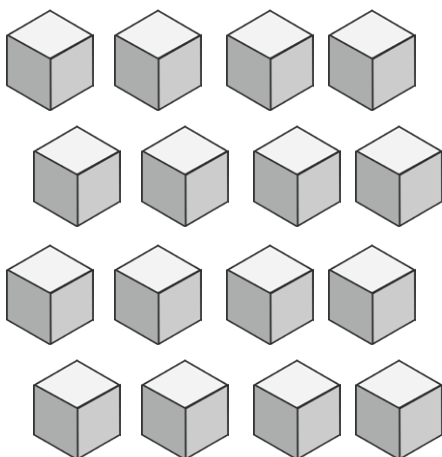1 mark

b) Shade in $\frac{2}{10}$ of this shape.

1 mark

c) Write 0.6 as a fraction.

1 mark

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

There are 16 cubes on the table. Calculate:

$\frac{1}{2}$ of 16 =

$\frac{1}{4}$ of 16 =

$\frac{3}{4}$ of 16 =

$\frac{1}{8}$ of 16 =

$\frac{4}{4}$ of 16 =

5 marks

Total for this page

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

a) Match the following calculations.

$\frac{1}{5}$ of 15   12 ÷ 4
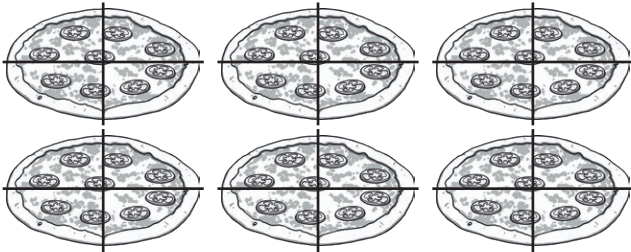
$\frac{1}{2}$ of 14   18 ÷ 3

$\frac{1}{3}$ of 18   15 ÷ 5
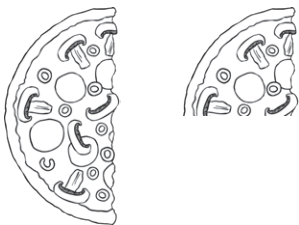
$\frac{1}{4}$ of 12   14 ÷ 2

b) 6 pizzas are shared equally between 4 people. How many pizzas will each be given?
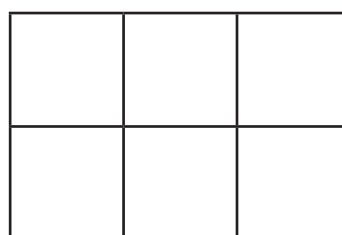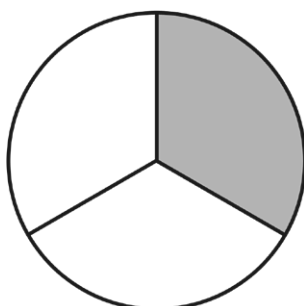
c) These 2 pieces of pizza were left at the end. What fraction of a whole pizza was not eaten?

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

a) Shade the same fraction of the rectangle as the fraction of the circle that is shaded.

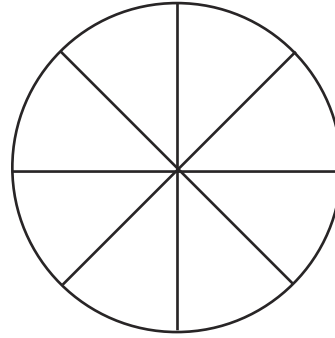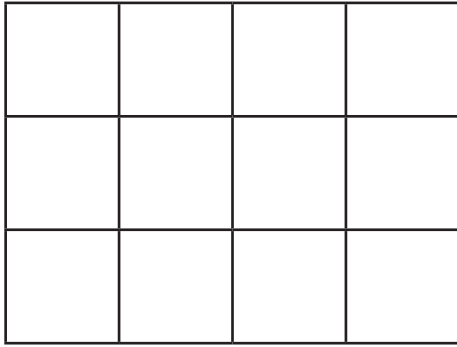**a)** Shade $\frac{3}{4}$ of each of these shapes.

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

$\frac{2}{10} + \frac{5}{10} = $ [ ]

$\frac{2}{5} - \frac{1}{5} = $ [ ]

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

Write these fractions in order of size, smallest first:

$\frac{4}{10}$ $\frac{3}{10}$ $\frac{9}{10}$ $\frac{7}{10}$

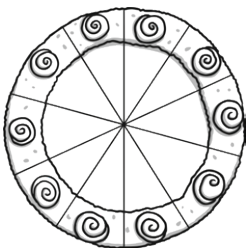smallest   largest

7. Solve problems that involve all of the above.

a) A cake is cut into 10 slices. $\frac{4}{10}$ of the cake is eaten at lunch and $\frac{3}{10}$ at tea. What fraction is left?
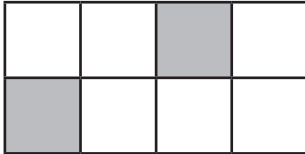

[ ]

a) Ben has 70p in 10p coins. How many 10p coins are $\frac{4}{7}$ of his money?

b) Complete the shading so $\frac{1}{2}$ is shaded.

Answer Sheet: Maths Assessment Year 3 Term 2: Fractions

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	$\frac{2}{10}$ $\frac{3}{10}$ $\frac{4}{10}$ $\frac{5}{10}$ $\frac{6}{10}$ $\frac{7}{10}$ $\frac{8}{10}$	1	
b	Any 4 squares shaded	1	
c	$\frac{6}{10}$	1	Accept $\frac{3}{5}$ 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 16 = 8 $\frac{1}{4}$ of 16 = 4 $\frac{3}{4}$ of 16 = 12 $\frac{1}{8}$ of 16 = 2 $\frac{4}{4}$ of 16 = 16	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	$\frac{1}{5}$ of 15 12 ÷ 4 $\frac{1}{2}$ of 14 18 ÷ 3 $\frac{1}{3}$ of 18 15 ÷ 5 $\frac{1}{4}$ of 12 14 ÷ 2	1	
b	$1\frac{1}{2}$ or 1.5	1	
c	$\frac{3}{4}$	1	Allow a mark for " $\frac{1}{4}$ and a $\frac{1}{2}$."
4. Recognise and show, using diagrams, equivalent fractions with small denominators.			
a	Any 2 squares in the rectangle shaded	1	
b	9 shaded squares 6 shaded segments	2	1 mark for each shape shaded correctly
5. Add and subtract fractions with the same denominator within one whole.			
	$\frac{2}{10} + \frac{5}{10} = \boxed{\frac{7}{10}}$ $\frac{2}{5} - \frac{1}{5} = \boxed{\frac{1}{5}}$	2	Award 1 mark for each correct answer.
6. Add and subtract fractions with the same denominator within one whole.			
	$\boxed{\frac{3}{10}}$ $\boxed{\frac{4}{10}}$ $\boxed{\frac{7}{10}}$ $\boxed{\frac{9}{10}}$	1	All must be correct for the mark.

question	answer	marks	notes
7. Solve problems that involve all of the above.			
a	$\frac{3}{10}$	1	
b	4 coins	1	
c	Any other 2 parts shaded	1	
		Total 20	