iMaths 4 Differentiation Tasks

NA23 Equivalent fractions

You will need empty egg cartons, or pictures of egg cartons for this activity.

This is a whole egg carton. It can hold 12 eggs.

- **1 a** Cut the egg carton in half. Each half can hold 6 eggs.
 - **b** Take another egg carton and cut it into 4 equal parts.
 - **c** How many quarters do you need to make one half?
- **2 a** Take another egg carton and cut into 3 equal parts.
 - **b** Cut an egg carton into 6 equal parts.
 - **c** How many sixths are equal to one third $\frac{1}{3}$?
 - **d** How many sixths are equal to one half $\frac{1}{2}$?





<u>|</u> 2

Each half is the same or equivalent $\frac{1}{2}$ = one half



eggs

eqqs



=

=



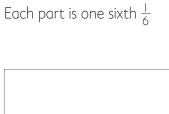
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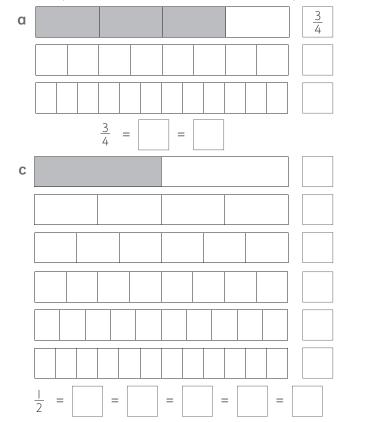


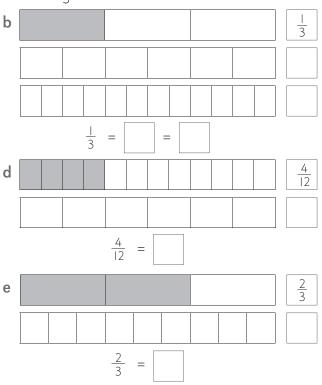
iMaths 4 Differentiation Tasks

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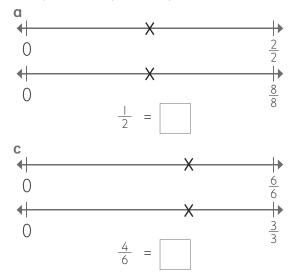
NA23 Equivalent fractions

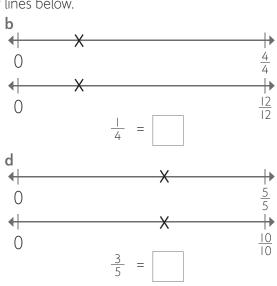
1 Colour part of each row to show fractions equivalent to the fraction given.



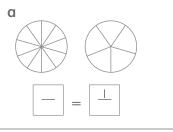


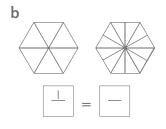
2 Complete each pair of equivalent fractions on the number lines below.





3 Write the fractions below each pair of fraction models.

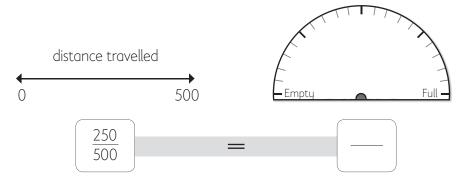






NA23 Equivalent fractions

1 a If you can travel 500 kilometres on a full tank of fuel and you have travelled 250 kilometres, show this information on the number line and fuel gauge below.



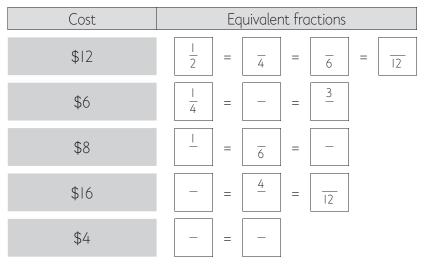
b You have a quarter of a tank of fuel left. Using a different colour, mark this information on the number line and fuel gauge above.



- **2** You have a shop where you sell cakes and slices. A whole slab cake sells for \$24.00. Customers can purchase the whole cake or portions of the cake.
 - **a** Calculate the cost for different sized portions.

Number of portions		2	3	4	6	8	12
Cost per portion	\$24	\$12					
Fraction of cake		<u> </u> 2					

b Use the table above to calculate these equivalent fractions.



3 Use the drawing tools in your word processor software program to draw horizontal bars that show the relationship between:

2'	3	4	6	8

iMaths 4 Differentiation Answers

NA23 Equivalent fractions

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<u>|</u> 2

Each half is the same or equivalent $\frac{1}{2}$ = one half



$\frac{2}{4}$	

Each part holds 4 eggs

Each part holds 2 eggs

Each part is one sixth $\frac{1}{6}$

Each part is one third $\frac{1}{3}$

=

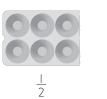
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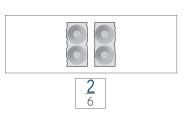


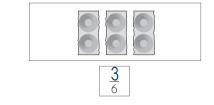
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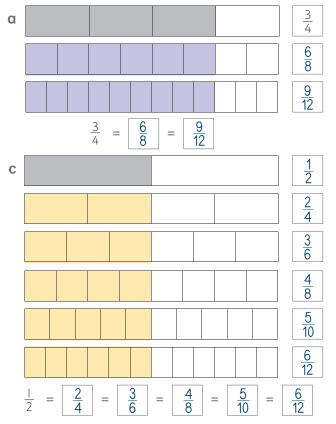


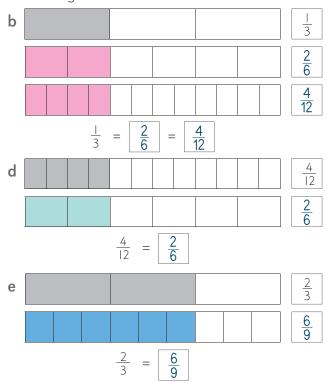
iMaths 4 Differentiation Answers

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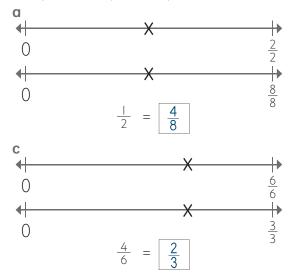
NA23 Equivalent fractions

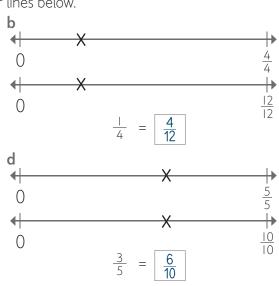
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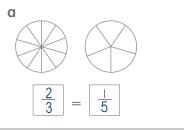


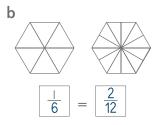
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iMaths 4 Differentiation Answers



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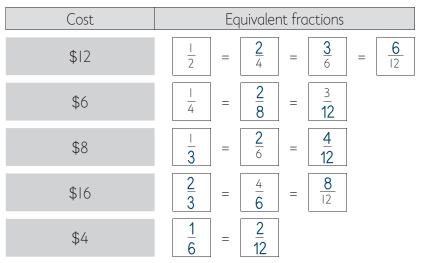
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 - **a** Calculate the cost for different sized portions.

Number of portions		2	3	4	6	8	12
Cost per portion	\$24	\$12	\$8	\$6	\$4	\$3	\$2
Fraction of cake		<u> </u> 2	<u>1</u> 3	$\frac{1}{4}$	<u>1</u> 6	<u>1</u> 8	<u>1</u> 12

b Use the table above to calculate these equivalent fractions.



3 Use the drawing tools in your word processor software program to draw horizontal bars that show the relationship between:

