

<b>Name</b>			
<b>Class</b>	A	<b>Term</b>	3
<b>Year</b>	8	<b>Quiz Number:</b>	2

1) Sara thinks of a number,  $x$ . She divides the number by 3, then adds 7.  
Write an expression for the number Sara gets.

[1]

.....

.....

2) Copy and complete

**a**  $3^2 \times 3^4 = 3^{\square}$

**b**  $\frac{5^{12}}{5^9} = 5^{\square}$

**c**  $(7^2)^5 = 7^{\square}$

[3]

Expand

**a**  $x(x + 2)$

**b**  $3y(4y - 7w)$

[2]

.....

.....

3) Write each ratio in its simplest form.

[3]

a) 48: 24 .....

b) 25: 125 .....

c) 27 : 45 : 18 .....

4) Here are the first five terms of a number sequence.

[2]

126 122 118 114 110

a) Write down the next two terms of the number sequence. .... , .....

b) Find an expression, in terms of  $n$ , for the  $n$ th term of the sequence.

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