

Name			
Class	Α	Term	3
Year	8	Quiz Number:	2

Copy and complete			
a $3^2 \times 3^4 = 3$ Expand	b	$\frac{5^{12}}{5^9} = 5$	$c \qquad \left(7^2\right)^5 = 7$
a $x(x + 2)$	b	3y(4y-7w)	
3) Write each ratio in it: a) 48: 24	s simplest for		
	s simplest for		
a) 48: 24			
a) 48: 24 b) 25: 125		m.	



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_	1.4
-	3/4
u	~ .

 $\sqrt{5}$

 $\sqrt{6.25}$

d
$$\sqrt{62.5}$$

b)

c) -----

d)

e)

6) Which answer is correct, A, B, C or D?

[4]

[5]

a Simplify
$$\frac{6x^6}{12x^3}$$
 A $2x^2$

 $2x^3$ **C** $\frac{1}{2}x^2$ **D** $\frac{1}{2}x^3$

Simplify $\frac{4y^8}{10y^2}$ A $\frac{2}{5}y^6$ B $\frac{2}{5}y^4$ C $2\frac{1}{2}y^6$ b

D $2\frac{1}{2}y^4$

Simplify $\frac{25k^3}{15k^2}$ A $\frac{3}{5}k$ B $\frac{3}{5}k^{1.5}$ C $\frac{5}{3}k$ D $\frac{5}{3}k^{1.5}$

Simplify $\frac{20m^6}{6m^6}$ A $3\frac{1}{3}m$ B $3\frac{1}{3}$ C $\frac{3}{10}m$ d

7) Expand and simplify.

a)
$$(x + 3)(x + 7) =$$

[2]

b)
$$(x-4)(x+8) =$$

8) Work out the value of each expression when x = 3, y = 5 and z = -2

a)
$$x(3y + z) =$$

[3]

b)
$$(2x)^2 + y^3 =$$

c)
$$\frac{(x+y)}{4} - 5z =$$

Good Luck @

Total Marks

25