

IH UFP Basic Math TEST 2	Arithmetic Paper 2	Time: 20 minutes
Name:	Level: UFP Basic	Date Set: 26/02/2008

ANSWER ALL QUESTIONS.

READ EACH QUESTION CAREFULLY. WRITE CLEARLY AND SHOW HOW YOU ARRIVED AT THE ANSWER. YOU MAY GET MARKS FOR METHOD EVEN IF YOUR ANSWER IS INCORRECT.

USE BLACK OR BLUE INK.

YOU MAY NOT USE ANY REFERENCE MATERIAL.

YOU MAY NOT USE A CALCULATOR IN THIS TEST.

(Q 1) Solve these fractions:	8 MARKS
$\frac{100}{200} + \frac{200}{300}$	$\frac{1000}{2000} \div \frac{3}{5}$

(Q 2) Simplify expression below to its simplest form:	10 MARKS
$\frac{y+x}{8x} - \frac{y-x}{2x}$	

Q 3	Expand the brackets:	6 MARKS
(a)	$2(3p - 2) =$	
(b)	$4y^3(2y - 3y^2) =$	

Q 4	Simplify each of these expressions:	9 MARKS
(a)	$5x - 2(x-y) =$	
(b)	$6x(x+3) - x(6+x) =$	
(c)	$y^3(1+y) - y(3+y^3) =$	

Q 5	Factorize completely:	8 MARKS
(a)	$6x^2 + 3x$	
(b)	$6x(x+3) - x(6+x)$	

Q 6 Evaluate these indices:		12 MARKS
(a)	$d^m \times d^n =$	
(b)	$d^m \div d^n =$	
(c)	$(d^m)^n =$	

Q 7 Evaluate these indices:		9 MARKS
(a)	$a^{-m} =$	
(b)	$a^{1/m} =$	
(c)	$a^{1/3} =$	

Q 8 Simplify:		8 MARKS
(a)	$x^6 \div x^2 =$	
(b)	$4x^3 \times 3x^2 =$	
(c)	$6x^3 \div 2x =$	
(d)	$(a^6)^0 =$	

Q 9 Simplify:		5 MARKS
(a)	$\frac{4x^4 \times 2x^3}{8x^2} =$	

Q 10 Simplify:		10 MARKS
(a)	$\frac{6x^{-4} \times 2x^3}{8x^{-3}} =$	