## FOCUS A365

## GATITU SECONDARY SCHOOL

	Form 1	Term 2	121 A - Mathemati	cs 17-Mei-16	Opener
ADM NAME CLASS					
1.	Round off; a) 468.389		cimal places		(1mk)
	b) 43264 to	the nearest	t on <b>thousand</b>		(1mk)
2.	What is the	Greatest (	Common Divisor of 33,	121 and 143?	(1mk)
3.	Express the	e following	numbers in terms of thei	r <b>prime factors</b> ;	
	i) 360		(2mks)	ii) 90	(2mks)

4. What is the **place value** and **total value** of digit 5 in 8950403?

(2mks)

5. Solve for the equation below:

(2mks)

$$\frac{1\frac{1}{4} \times 2\frac{1}{2}}{3\frac{1}{2} - 2\frac{1}{4}}$$

6. Find the **LCM** of 45, 12, and 9?

**(2mks)** 

7. Attempt question (a) and (b)

(6mks)

a. Fill the blank space below

A number is divisible by 9 if the \_\_\_\_\_ of its digits is divisible by 9

- b. Test whether **712 008** is divisible by: (note: give your answer as a "yes" or "no")
  - i. 2 \_\_\_\_\_

iv. 9

ii. 3 \_\_\_\_\_

v. 11 \_\_\_\_\_

iii. 8 \_\_\_\_\_

8. Express the following recurring decimals as a fraction

a. 
$$0.\dot{5}2\dot{3}$$
 (2mks)

b. 
$$0.2\dot{5}\dot{6}$$
 (2mks)

9. Find the value of **y**:

a. 
$$5 \times 6 - 76 \div 4 + 27 \div y = 20$$
 (2mks)

b. 
$$-7 \times 41 + 36 \div y + 12 \times 12 = -139$$
 (2mks)

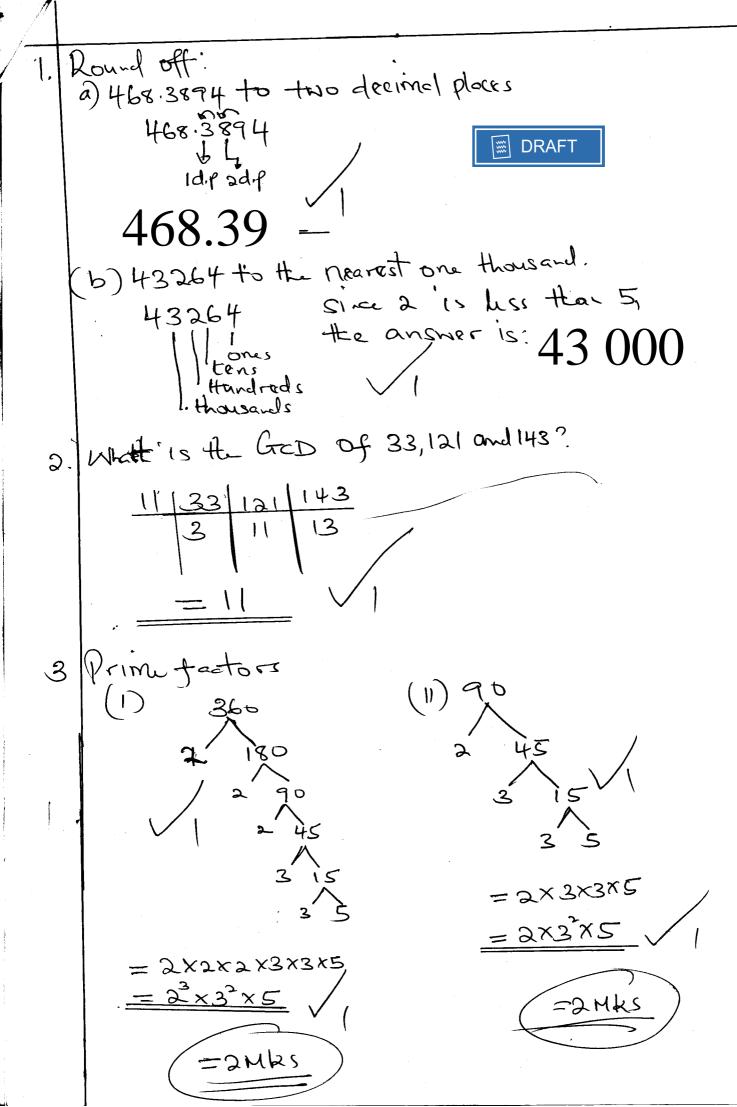
c. 
$$24 \div 3 + 4 \times 5 - y \div 4 \times 10 + 1 = 9$$

(2mks)

10. A classroom floor is made of small square tiles of side  $\frac{1}{20}m$ . If the floor measures 6m by 5m,

how many square tiles are needed to cover the floor?

(1mk)



What is the place value and total Value of digit 5 12 8950402 Place Value - sten thousands V. Total Value - 50,000 V. 1/4 x2 stepl: drange 1-to Imbubo, tractor Solve 3/2-2/4 Strp2! Work Wift nominator.  $\frac{5}{4} \times \frac{5}{7} = \frac{25}{8}$ Steps: Work with denominator Find He Lam - 45, 12, 9 3 45  $=2^{1}\times3^{2}\times5$ = 4×9×5 = 4x45 = 180 (a) A number is divisible by 9 if the <u>sum</u> of Hs digitir is divisible by 9 b) (1) Yos [a number 15 divisible by The if its lost digit is zero or even (11) Yesta number is divisible by 3 15 the sum of its digits is divisible by 3] (11) Mostaminh is divisible by 8 if the number formed

1(b)(111) yes anumbric divisible by 9 if the sum of Its] (V) YOS | anumber 15 divisible by 11 If the Sum of Its (V) YOS | digits in the 1st 3rd, 5th The terositions and the digits in the 1st 3rd St. The terpositions and the Sum of its digits in the 2nd 4th, 6th 8th etc.

Positions are agual or differ by 11 or by a 1.2.712008 (1+2+0) \$(1+0+8) 9 \$ 9 are equal thus Throog is divisible by 11. 8(0) 0,523 Lto fraction Let r = 0.52352310r=5.23523 loor = 52.3523 1 1000r=523.523 (1000r-r) = (523-0) 9997 = 523 (D) O. 256 its Praetron let r = 0.2565656 lor=1.565656 loor = 25.65656 1000r = 256.5656 1000r - 10r) = 256 - 2 990r = 254 $r = \frac{254}{127}$ r = 127

(b) 
$$-7 \times 41 + 36 + 7 + 12 \times 12 = -139$$
 $-287 + 36 + 144 = -139$ 
 $-36 - 143 = -139$ 
 $-143 = -139 + 143$ 
 $y \times 36 = 4 \times y$ 
 $y = 9$ 
 $y = 8$