Student	Class	Date	
Name			

#### **MULTIPLE CHOICE QUESTIONS:**

	Wh	What is the best description for the least common multiple (LCM)?		
1	Α	the least non-zero number that is a multiple of two or more whole numbers		
	В	the least number that is a multiple of the denominators		
	С	the least number that is a multiple of the numerators		
	D	the least non-zero number that is a multiple of a fraction		

	Wh	at is the LCM of 3 and 5?
	Α	2
2	В	3
	С	5
	D	15

	Wh	at is the GCF of 18 and 42?
	A	3
3	В	6
	С	24
	D	60

	Wri	$\frac{4}{56}$ in simplest form.
	A	<u>21</u> <u>56</u>
4	В	<u>2</u> 56
	С	$\frac{1}{14}$
	D	<u>2</u> 14

		Which three common multiples for 3 and 8 are missing from the list below? 24, 48, 72,,, 168, 192,		
5	Α	3, 8, 24		
	В	24, 24, 24		
	С	96, 110, 144		
	D	96, 120, 144		

	Wh	at is the LCM of 4, 7 and 8?
	Α	28
6	В	32
	С	56
	D	224

The fastest fish in the world is the sailfish. If a sailfish swims at a constant rate, how many kilometers can the sailfish travel in 6 hours?

Hours Travelled	0	1	2	3	4	5	6
Kilometers Travelled	0	68	136	204	272	340	?

7

A	6 km
В	68 km
С	406 km
D	408 km

What is the ratio of people to cars?

6 cars 150 people

A 1:25

B 6:150

C 6:1

D 25:1

	Divi	ide 55 into two groups so that the ratio is 4 : 7.
	Α	11:7
9	В	35 : 20
	С	20:35
	D	220 : 385

To make 5 shwarmas, you need 0.5 kg of chicken. How many kg of chicken do you need for 20 shwarmas?

No. of Shwarmas 5 20

Kg of Chicken 0.5

A 2

B 2.5

C 10

D

15.5

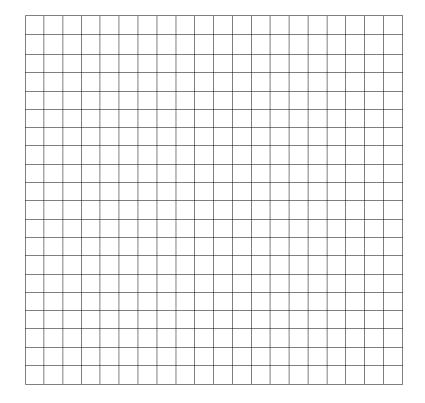
A school population was predicted to increase by 50 students a year for the next 10 years. If

#### **EXTENDED RESPONSE QUESTIONS:**

11	the current population is 700 students, what will the enrollment be in 10 working clearly.	) years? Sho	w your
''			
		marks:	/ 2
	The grade 7 teacher collected money from students for three days for a student paid the same amount, what is the most the tickets could cost the GCF). Show all your working.		
	Sunday AED 64		
	Monday AED 36		
12	Tuesday AED 52		
	T		
		marks:	/ 4
	a) Ahmed planted 6 flowers in 9 minutes. Ali planted 8 flowers in	12 minutes.	Calculate
	how long it took each of them to plant 1 flower.		
	r		
13		marks:	/ 2
	b) Who planted the flowers faster? Explain your answer.		
		marks.	12

a) Graph the ordered pairs for Khalifa's Running Record. Remember to use correct scales and label the *x*-axis and *y*-axis of your graph.

Khalifa's Running Record				
Day, x Kilometers, y (x, y)				
1	4	(1, 4)		
2	8	(2, 8)		
3	12	(3, 12)		
4	16	(4, 16)		



marks: / 4

b) Describe the pattern in terms of the day and kilometers ran by Khalifa.

14

14

marks: / 1



MULTIPLE CHOICE SECTION:	/10
<b>EXTENDED RESPONSE SECTION:</b>	/15
TOTAL MARKS:	/25
PERCENT:	%

Grade 6 Lesson(s)	1-1, 1-2, 1-3, 1-4, 1-5, 1-6, 1-7
-------------------	-----------------------------------

# **Answer Key**

#### **MULTIPLE CHOICE QUESTIONS:**

Q1	Α
Q2	D
Q3	В
Q4	С
<b>Q5</b>	D
Q6	С
Q7	D
Q8	D
Q9	С
Q10	Α

#### **EXTENDED RESPONSE QUESTIONS:**

	Ans: 1200 students		
	1. Number of students in 10 years • 50 x 10 = 500 (1 mark)		
	Number of students in total		
Q11	• 700 + 500 = 1200 students		
QII	(1 mark)		
	The 1 <sup>st</sup> mark is awarded if working shown.		
	The 2 <sup>nd</sup> mark may be awarded if the answer is correct, but "700 +500" is not shown.		

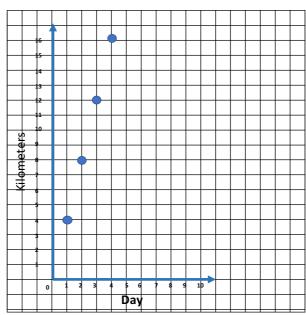
	Ans: AED 4			
	1. Factors of 64 • 64: 1, 2, 4, 8, 16, 32, 64			
	(1 mark) 2. Factors of 36  • 36: 1, 2, 3, 4, 6, 9, 12, 18, 36 (1 mark)			
Q12	3. Factors of 52  • 52: 1, 2, 4, 13, 26, 52 (1 mark)			
	4. GCF of 64, 36, and 52 • GCF is 4, hence AED 4 (1 mark)			
	<ul> <li>Factors for 64, 36 and 52 must be shown for 1<sup>st</sup> 2<sup>nd</sup> and 3<sup>rd</sup> marks.</li> <li>Answer of AED 4 must be stated. If AED is not written, still award the 4<sup>th</sup> mark.</li> </ul>			

	Ans: Ahmed = 1.5 minutes Ali = 1.5 minutes		
	1. Ahmed's time to plant 1 flower • 9 ÷ 6 = 1.5 minutes (1 mark)		
Q13 (a)	2. Ali's time to plant 1 flower  • 12 ÷ 8 = 1.5 minutes (1 mark)		
	<ul> <li>If there is no working but the correct final answer for Ahmed or Ali, award the mark(s).</li> <li>Do not penalise if the units are not written.</li> <li>If student writes "1 minute 30 seconds," this is also acceptable.</li> </ul>		

	Ans: Both Ahmed and Ali had the same speed.			
Q13	Equivalent Ratios	•	Both Ahmed and speed.	d Ali had the same (1 mark)
(b)	<ul> <li>Pupils just need to mention that the speed was the same planting 1 plant.</li> <li>If the answer from 13 (a) shows otherwise, the mark should be awarded for correct answer based on this.</li> </ul>			

Ans: Check the grid.			
1.	Draw the grid with both axes correctly labelled.	•	x and y axes correctly labelled. (1 mark)
2.	Both axes are correctly scaled.	•	x and y axes correctly scaled
			(1 mark)
3.	Graph ordered pairs presented in the table.	•	2 coordinates plotted correctly (1 mark)
4.	Graph ordered pairs presented in the table.	•	all 4 coordinates plotted correctly (1 mark)

Q14 (a)



If a student displays more than one quadrant, marks should still be awarded as long as the four points are plotted correctly.



	Ans: Check the statement for an example like, "As days increase by 1, kilometers increase by 4."		
Q14	Compare ratios	<ul> <li>As days increase by 1, kilometers increase by 4.</li> </ul>	
(b)		(1 mark)	
	ometers. If no value is given but the increase in ard the mark.		