



DHOFAR UNIVERSITY
FOUNDATION PROGRAM | MATH UNIT
FPM 100 – Math Pre Level
Model Paper Final EXAM
Term (2023-24)

Student Name									
Student ID									Date:
Section								Duration: 1 hour 30 minutes	
Instructor	Mohammad Mustafa, Mohammad Siddique								

Instructions:

- 1) The exam has 3 main questions with a scratch sheet.
- 2) Please turn off your mobile phone.
- 3) Use only a blue or black pen.
- 4) No talking, passing objects, or looking in the direction of another student's paper. Any of these behaviors will be considered cheating.

Dhofar University's Academic Integrity Policy (Policy No. DU-AC-007) is intended to foster hard work, honesty, and responsibility. It strictly prohibits all forms of academic misconduct, including cheating and collusion, plagiarism, and impersonation.

By reading this pledge, I affirm that I have upheld the AIP and that my submitted work is my own and therefore free of any form of cheating.

تهدف سياسة النزاهة الأكاديمية بجامعة ظفار (السياسة رقم DU-AC-007) إلى تعزيز العمل الجاد والأمانة والمسؤولية
و تحظر تمامًا جميع الأشكال التي تخالف النزاهة الأكاديمية ، بما في ذلك الغش والتواطؤ والسرقة الأدبية والانتحال.

من خلال قراءتي لهذا التعهد أؤكد أنني ملتزم بسياسة النزاهة الأكاديمية و أن عملي هذا هو خاص بي ويخلو من أي شكل من أشكال الغش.

Student's Signature: _____

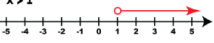
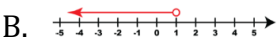
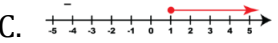
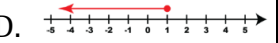
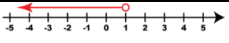
Marking Grid

Question	Question 1 MCQs (out of 10)	Question 2 (out of 15)	Question 3 (out of 15)	Total / 40 marks
Marks obtained				

Marker's name:		Moderator's name:	
Marker's signature:		Moderator's signature:	
Date:		Date:	

Question 1: Circle the correct answer.

(10 Marks)

1. Reduce to the lowest term $\frac{27m^2n}{9mn}$	A. $3m$	B. $3mn$	C. $\frac{3m}{n}$	D. $\frac{3n}{m}$
2. Reduce to the lowest term $\frac{5x+15}{5}$	A. $x + 15$	B. $x - 3$	C. 15	D. $x + 3$
3. Reduce to the lowest term $\frac{y^2-4}{y-2}$	A. $2y$	B. $\frac{y}{2}$	C. $y + 2$	D. $y - 2$
4. Reduce to the lowest term $\frac{x^2+3x+2}{x+1}$	A. $x - 3$	B. $x + 2$	C. $x + 1$	D. $x + 3$
5. Which value represents a solution for $4x + 2 = -14$	A. $x = 3$	B. $x = -4$	C. $x = 4$	D. <i>no solution</i>
6. Which value represents a solution for $\frac{x}{2} + 5 = 2$	A. $x = 6$	B. $x = -6$	C. $x = 5$	D. $x = 4$
7. Which value represents a solution for $\sqrt{2x} = 4$	A. $x = 16$	B. 8	C. $x = 4$	D. $x = 2$
8. Graph the solution set of the inequality: $x > 1$	A. 	B. 	C. 	D. 
9. Write the interval in inequality form $(-\infty, 9)$	A. $x > 9$	B. $x > -9$	C. $x < 9$	D. $x < -9$
10. Which inequality represents the given graph 	A. $x \leq 1$	B. $x \geq -1$	C. $x < 1$	D. $x \geq 1$

Question 2: Solve each equation for x .**(15 Marks)**

A. $10x + 2 = x + 11$	(3 marks)
B. $\frac{4x}{3} + \frac{x}{2} = 5$	(3 marks)
C. $\sqrt{3x + 4} = 1$	(3 marks)
D. Find Two consecutive numbers whose sum is 61.	(6 marks)

Question 3: Find the solution to the inequality, graph the solution on a number line, and express the solution as an interval **(15 Marks)**

<p>A. $2(x - 3) > x + 3$</p>	(5 marks)
<p>B. $\frac{x+1}{2} \leq \frac{7}{3}$</p>	(5 marks)
<p>C. Salim had scores of 3, 2, and 4 on the first three exams. What score must she get in her fourth exam, so the average is equal to 3 or better?</p>	(5 marks)

End of Model Paper Final Exam

SCRATCH SHEET

Name: _____

Note:

1. This scratch sheet will not be marked.
2. Do not detach it from the rest of the exam papers.