

Math Practice Exam for Term 2 _ 2025/2026

Units	4, 5 and 6
Cycle	2
Grade/ Section	6 Advanced
Student Name	
Student ID No.	

Type of Questions	Grade	Name of the corrector
MCQ	/60	
FRQ1	/9	
FRQ2	/8	
FRQ3	/7	
FRQ4	/8	
FRQ5	/8	

Show me YOUR BEST 😊

مدرسة السلمة لتحتة الفتيّة والثالثة - بنات AL-SALAMAH GIRLS' SCHOOL		2025/2026		Academic Year	
Term		2		العام الدراسي	
المصّل					
Subject		Mathematics			
المادة		الرياضيات \ ريفيل			
Grade		6			
الصف					
Stream		Advanced			
المسار		المتقدم			
Number of MCQ		15			
Marks of MCQ		4			
Number of FRQ		5			
Marks per FRQ		(6-9)			
Type of Questions		MCQ			
		FRQ			
Maximum Overall Grade		100			
Exam Duration		60 minutes			
Mode of Implementation		Papar-based			
Calculator		Not Allowed			

Question	Learning Outcome/Performance Criteria **	Reference (s) In the student Book (English Version)	Page
السؤال	نتج التعلم ١ معايير الأداء **	Example	
1	Use positive and negative numbers, as well as 0, to represent quantities in everyday life.	1_6	197
2	Understand the absolute value of integers.	12_13	203
3	Correctly order rational numbers, including integers and absolute values.	1_4	213
4	Use a number line to write a statement of inequality.	1_4	213
5	Understand that the absolute value of rational numbers shows their distance from 0.	3_4	223
6	Recognize that the coordinates of points reflected across either axis differ by the sign of one of the coordinates	1_10	243
7	Write a product of whole numbers, fractions, or decimals as a power and write a power as a product of factors.	1_15	267
8	Write and evaluate a numerical expression using the correct order of operations.	4_9	285
9	Identify parts of an expression from a verbal description in order to write an algebraic expression, using variables for unknown quantities, that models a real-world or mathematical problem.	1_6	263
10	Find the greatest common factor and least common multiple of two whole numbers.	9_10	303
11	Use the Distributive Property to evaluate numerical expressions, to rewrite algebraic expressions, and to factor numerical and algebraic expressions.	1-3 & 10_12	313
12	Use substitution to determine whether a given number is a solution of a one-step equation.	1_8	339
13	Write and solve multiplication equations for real-world and mathematical problems by using the Division Property of Equality.	5_10	367
14	Write and solve division equations for real-world and mathematical problems by using the Multiplication Property of Equality.	5_10	375
15	Understand how inequalities are similar to and different from equations, and graph the solution of an inequality on a number line.	3_10	389
1	Order rational numbers.	13_16	224
2	Graph rational numbers in the coordinate plane.	1_8	253
	Use coordinates and absolute value to find the distance between points with the same x- or the same y-coordinates	7_14	235
3	Use the order of operations to evaluate algebraic expressions for given values.	1_13	275
4	Identify parts of an expression from a verbal description in order to write an algebraic expression, using variables for unknown quantities, that models a real-world or mathematical problem.	1_9	293
5	Write and solve subtraction equations for real-world and mathematical problems by using the Addition Property of Equality.	11_14	358
*	Questions might appear in a different order in the actual exam, or on the exam paper.		
*			
**	As it Appears in the textbook and LMS		

Question 1

Since his last vet appointment, a cat lost 2 ounces. Which integer best represents this situation?

A	2	C	0
B	-2	D	4

Question 2

On first down, the football team gained **7 yards**. Which integer represents this change?

A	-7	C	7
B	0	D	-1

Question 3

Sara withdrew **\$15** from her checking account. Which integer represents the change in her account balance?

A	15	C	-1
B	0	D	-15

Question 4

Which situation would be best represented by the integer **0**?

A	A cat gains 2 ounces	C	The temperature does not change
B	A football team loses 3 yards	D	Snowfall is 4 inches above average

Question 5

Which integer shows a **gain**?

A	-7	C	0
B	-3	D	6

Question 6

Which situation could be represented by the integer **-20**?

A	A football team gained 20 yards	C	The temperature rose 20 degrees
B	A dolphin is 20 feet below sea level	D	Snowfall was 20 inches above average

Question 7

A student says the integer for a dolphin below sea level is **20**.
What is the error?

A	The sign should be negative	C	The number should be positive
B	The number should be zero	D	There is no error

Question 1

A mountain climber started at sea level and descended down a cliff. **Ali's** location can be represented by **-75 feet**. How many feet did Ali travel?

A	-75 feet	C	0 feet
B	75 feet	D	150 feet

Question 2

the temperature was **-5°F** when **Fatima** woke up in the morning. By noon, the temperature was **0°F**. How many degrees did the temperature change?

A	-5°F	C	5°F
B	0°F	D	10°F

Which statement best describes the absolute value of a number?

A	The opposite of the number	C	The negative of the number
B	The distance from zero on a number line	D	The value of the number only if it is positive

Question 4

A student says:

$$|-4| = -4$$

What is the student's mistake?

A	The absolute value should be positive	C	The number should stay negative
B	The number should be zero	D	There is no mistakes

Question 5

Which number is **farthest from zero**?

A	-3	A	$ -5 $
B	2	B	4

Question 1

The table shows the freezing points of gases (°C).
Which list shows the freezing points ordered from **least to greatest**?

Gas	Freezing Points (°C)
Argon	−189
Carbon Monoxide	−205
Ethane	−297
Helium	−272
Oxygen	−219
Sulfur Dioxide	−72

A	−72, −189, −205, −219, −272, −297	C	−272, −297, −205, −219, −189, −72
B	−297, −272, −219, −205, −189, −72	D	−297, −219, −272, −205, −189, −72

Question 2

The table shows the scores of players in a trivia game.
Which list shows the scores ordered from **least to greatest**?

Player	Score
Ace	−11
Diana	3
Jace	−3
Oneida	−7
Nolan	5
Rachel	1

A	−11, −7, −3, 1, 3, 5	C	−11, −3, −7, 1, 3, 5
B	−7, −11, −3, 1, 3, 5	D	−3, −7, −11, 1, 3, 5

Question 3

Order the following numbers from **least to greatest**:

−4, |−2|, 1, −6

A	−6, −4, 1, 2	C	−6, −4, 1, 2
B	−6, −4, 2, 1	D	−4, −6, 1, 2

Question 1

After a golf game in **Abu Dhabi**, Ahmed's score was **-4** and Saeed's score was **-1**. Which inequality correctly compares their scores?

A	$-4 > -1$	C	$-4 < -1$
B	$-4 = -1$	D	$-1 < -4$

Question 2

The lowest temperature in **Al Ain** was **-2°C**, and in **Ras Al Khaimah** it was **-6°C**. Which inequality correctly compares the temperatures?

A	$-2 < -6$	C	$-6 < -2$
B	$-6 > -2$	D	$-2 = -6$

Question 3

A diver near **Fujairah** is at **-15 m**, and another diver is at **-8 m**. Which inequality is true?

A	$-15 > -8$	C	$-15 = -8$
B	$-8 < -15$	D	$-15 < -8$

Question 4

On **Jebel Jais**, Mariam is at **-3 m** relative to the start point, and Noor is at **-9 m**. Which inequality compares their positions correctly?

A	$-3 < -9$	C	$-9 < -3$
B	$-9 > -3$	D	$-3 = -9$

Question 5

The water level in **Liwa** dropped **-7 cm**, and in **Al Dhaid** it dropped **-12 cm**. Which statement is true?

A	$-7 < -12$	C	$-12 < -7$
B	$-12 > -7$	D	$-7 = -12$

Question 1

A hiker in the **Liwa Desert** is at **-18 meters** below the starting point between dunes.
How far is the hiker from the starting point?

A	-18 meters	C	18 meters
B	9 meters	D	36 meters

Question 2

A pearl diver near **Abu Dhabi** dives to a depth of **-25.5 meters**.
How far did the diver travel from sea level?

A	-25.5 meters	C	25.5 meters
B	12.75 meters	D	51 meters

Question 3

A climber on **Jebel Jais** is **-420 meters** below the peak during a hike.
What is the distance from the peak?

A	-420 meters	C	420 meters
B	210 meters	D	840 meters

Question 4

During winter, the temperature in **Al Ain** dropped **-6°C** overnight.
What is the size of the temperature change?

A	-6°C	C	6°C
B	3°C	D	12°C

Question 5

A dolphin near **Fujairah** swims at a depth of **-14 meters**.
How far is the dolphin from the water surface?

A	-14 meters	C	14 meters
B	7 meters	D	28 meters

Question 1

What is the reflection of point $A(-2\frac{3}{4}, 1)$ across the **x-axis**?

A	$(-2\frac{3}{4}, -1)$	C	$(2\frac{3}{4}, -1)$
B	$(2\frac{3}{4}, 1)$	D	$(-1, -2\frac{3}{4})$

Question 2

What is the reflection of point $B(1\frac{1}{4}, -\frac{1}{2})$ across the **x-axis**?

A	$(1\frac{1}{4}, \frac{1}{2})$	C	$(-\frac{1}{2}, 1\frac{1}{4})$
B	$(-1\frac{1}{4}, -\frac{1}{2})$	D	$(-\frac{1}{2}, -1\frac{1}{4})$

Question 3

What is the reflection of point $C(-4, -2\frac{1}{2})$ across the **x-axis**?

A	$(-4, 2\frac{1}{2})$	C	$(4, 2\frac{1}{2})$
B	$(4, -2\frac{1}{2})$	D	$(-2\frac{1}{2}, -4)$

Question 4

What is the reflection of point $D(\frac{3}{4}, 3)$ across the **x-axis**?

A	$(-\frac{3}{4}, 3)$	C	$(-\frac{3}{4}, -3)$
B	$(\frac{3}{4}, -3)$	D	$(3, \frac{3}{4})$

Question 5

Aika places a garden post at $(3.5, 3.5)$. What is the location of the corner that reflects this point across the **y-axis**?

A	$(-3.5, 3.5)$	C	$(-3.5, -3.5)$
B	$(3.5, -3.5)$	D	$(3.5, 3.5)$

Question 6

A farmer places a corner of a chicken pen at $(-5.25, -5.25)$. What is the location of the corner after reflecting it across the **y-axis**?

A	$(5.25, -5.25)$	C	$(5.25, 5.25)$
B	$(-5.25, 5.25)$	D	$(-5.25, -5.25)$

Question 7

Point $C'(-4, -2)$ is the result of reflecting point $C(4, -2)$. Across which axis was the point reflected?

A	x-axis	C	origin
B	y-axis	D	Quadrant I

Question 8

Point $B'(-5\frac{1}{4}, -3\frac{1}{2})$ is the result of reflecting $B(-5\frac{1}{4}, 3\frac{1}{2})$. Across which axis was the reflection made?

A	x-axis	C	origin
B	y-axis	D	Quadrant I

Question 1

Which expression uses an exponent **correctly**?

A	$3 \times 3 = 3^3$	C	$1.625 \times 1.625 = 1.625^2$
B	$15 \times 15 = 15^1$	D	$\frac{1}{3} \times \frac{1}{3} = \frac{1^2}{9}$

Question 2

Which expression is written correctly using an exponent?

$$4 \times 4 \times 4$$

A	4^2	C	3^4
B	4^3	D	12^3

Question 3

Which product is represented by 3^5 ?

A	A. 3×5	C	C. $5 \times 5 \times 5$
B	B. $3 \times 3 \times 3 \times 3 \times 3$	D	D. 15×15

Question 4

How many factors of $\frac{1}{3}$ are in the expression $(\frac{1}{3})^6$?

A	3	C	4
B	6	D	5

Question 5

A student writes: $1.625 \times 1.625 = 1.625^3$. What is the mistake?

A	The base is wrong	C	The base should be a whole number
B	The exponent is incorrect large	D	There is no mistake

Question 1

Which expression represents
“three more pancakes than Hector ate”?

A	$A. 3h$	C	$C. h + 3$
B	$B. h - 3$	D	$D. 3 - h$

Question 2

Which expression represents
“four less than seven times Lynn’s age”?

A	$7a - 4$	C	$7(a - 4)$
B	$4 - 7a$	D	$4a - 7$

Which expression represents
“two and one-half times the number of minutes spent exercising”?

A	$m + 2.5$	C	$2.5m$
B	$2.5 + m$	D	$\frac{m}{2.5}$

Question 4

Which expression represents
“one-third the number of yards”?

A	$3y$	C	$y - 3$
B	$\frac{y}{3}$	D	$\frac{3}{y}$

Question 5

Which verbal phrase matches the expression $x - 12$?

A	Twelve more than a number	C	Twelve fewer than a number
B	Twelve times a number	D	One-fourth of a number

Question 1

If $x = \frac{3}{4}$, what is the value of $8x$?

A	6	C	10
B	8	D	12

Question 2

If $y = 2.5$, what is the value of y^2 ?

A	5	C	25
B	6.25	D	12.5

Question 3

If $y = 2.5$, what is the value of $\frac{10}{y}$?

A	2.5	C	5
B	4	D	25

Question 4

If $a = \frac{2}{3}$ and $b = \frac{4}{5}$, what is the value of $a + b$?

A	$\frac{6}{15}$	C	$\frac{22}{15}$
B	$\frac{10}{15}$	D	$\frac{8}{15}$

Question 5

If $y = 4$, what is the value of $\frac{12}{y}$?

A	2	C	4
B	3	D	12

Question 1

What is the **least common multiple (LCM)** of 4 and 6?

A	8	C	12
B	10	D	24

Question 2

What is the **LCM** of 5 and 8?

A	13	C	20
B	20	D	40

Question 3

A bell rings every 6 minutes and another bell rings every 8 minutes.
After how many minutes will **both bells ring together**?

A	12	C	48
B	24	D	14

Question 4

Two traffic lights change every 5 seconds and 12 seconds.
After how many seconds will they change at the **same time**?

A	30	C	120
B	60	D	17

Question 1

Use the distributive property to expand:

$$3(x + 4)$$

A	$3x + 4$	C	$3x + 12$
B	$x + 12$	D	$12x$

Question 2

Use the distributive property to expand:

$$5(a - 2)$$

A	$5a - 2$	C	$a - 10$
B	$5a - 10$	D	$10a - 2$

Question 3

Use the distributive property to expand:

$$2(3x + 7)$$

A	$6x + 7$	C	$6x + 14$
B	$6x + 14$	D	$5x + 14$

Question 4

Use the distributive property to expand:

$$-4(y - 6)$$

A	$-4y - 6$	C	$4y - 24$
B	$-4y + 24$	D	$-10y$

Question 1

Consider the following equation: $x - 4 = 10$

Which value of x makes the equation true?

A	6	C	14
B	10	D	16

Question 2

Consider the following equation: $x + 7 = 15$

Which value can be substituted for x to make the equation true?

A	6	C	8
B	7	D	22

Question 3

Which value of x makes the equation true?

$$x - 9 = 3$$

A	6	C	12
B	9	D	15

Question 4

Which value of x makes the equation true?

$$x - 2 = 9$$

A	7	C	11
B	9	D	13

Question 5

Consider the equation below: $x + 3 = 11$

Which value can replace x to make the equation true?

A	6	C	8
B	7	D	14

Question 1

Which value of x solves the equation?

$$x - 5 = 9$$

A	4	C	14
B	9	D	-4

Question 2

Which number keeps both sides equal?

$$6x = 30$$

A	4	C	6
B	5	D	30

Question 3

Which value of x makes the equation correct?

$$12x = 48$$

A	2	C	4
B	3	D	6

Question 4

A number multiplied by 9 equals 27.
What is the number?

A	2	C	9
B	3	D	18

Question 1

Solve the equation: $6 = \frac{j}{8}$

A	2	C	14
B	8	D	48

Question 2

Solve the equation: $\frac{k}{7} = 7$

A	1	C	14
B	7	D	49

Question 3

Solve the equation: $\frac{z}{4} = \frac{2}{3}$

A	$\frac{2}{12}$	C	$\frac{4}{3}$
B	$\frac{4}{3}$	D	6

Question 4

Solve the equation: $\frac{1}{2} = \frac{w}{8}$

A	2	C	6
B	4	D	16

Question 5

Solve the equation: $5.31 = \frac{p}{9.2}$

A	0.577	C	48.852
B	14.51	D	9.2

Question 1

Which value of x is a solution to the inequality $x + 6 > 10$?

A	3	C	5
B	4	D	6

Question 2

Which number satisfies the inequality $x - 4 \leq 3$?

A	8	C	3
B	7	D	10

Question 3

Which of the following is NOT a solution for inequality true: $3x < 15$?

A	5	C	3
B	4	D	2

Question 4

Which number is a solution to the inequality $x \div 5 \geq 2$?

A	5	C	9
B	10	D	8

Question 5

Which of the following is NOT a solution for the inequality $x + 9 \leq 12$?

A	3	C	0
B	2	D	3.1

Question	1
----------	---

The table shows the change in height between each student’s plant and last year’s tallest plant.
Plot the changes on the number line.

Student	Change
Aisha	$-1\frac{1}{2}$ in.
Omar	$\frac{3}{4}$ in.
Sara	$-\frac{1}{4}$ in.
Khalid	1 in.
Noor	0



.....

.....

.....

.....

.....

.....

.....

.....

Question

1

In math class, students measured changes in water level. The table shows the change in water level compared to the start of the day. Plot the changes on the number line.

Student	Change
Fatima	$-1\frac{1}{4}$ L
Ahmed	$\frac{1}{2}$ L
Mariam	0.75 L
Youssef	$-\frac{1}{2}$ L
Layla	$1\frac{1}{4}$ L



.....

.....

.....

.....

.....

.....

.....

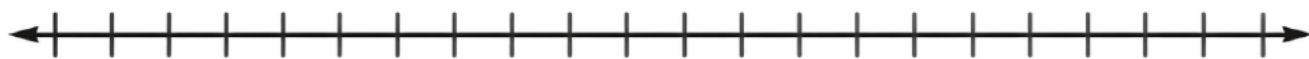
.....

Question

1

Students tracked temperature changes during the day. The table shows the change in temperature from the morning. Plot the changes on the number line.

Student	Change
Reem	-2°C
Hassan	$1\frac{1}{2}^{\circ}\text{C}$
Dana	$-\frac{1}{2}^{\circ}\text{C}$
Saeed	$\frac{1}{4}^{\circ}\text{C}$
Lina	0°C



.....

.....

.....

.....

.....

.....

.....

.....

.....

Question

1

Students compared quiz scores to the class average. The table shows how much each score changed from the average. Plot the changes on the number line.

Student	Change
Ali	$-1\frac{3}{4}$
Huda	0.5
Zain	1
Noor	$-\frac{1}{4}$
Salma	$1\frac{1}{2}$



.....

.....

.....

.....

.....

.....

.....

.....

.....

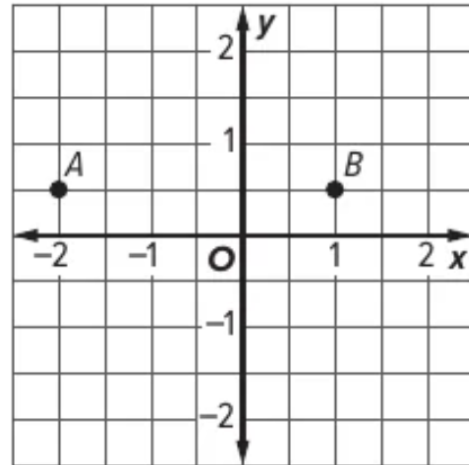
Question

2

a) Use the coordinate plane. Identify the ordered pair that names each point.

1. A (....., ...)

2. B (....., ...)



b) Find the distance between A and B.

.....

.....

.....

.....

.....

.....

.....

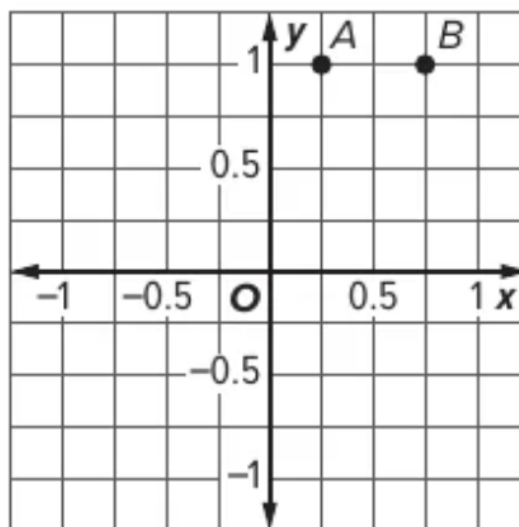
Question

2

a) Use the coordinate plane. Identify the ordered pair that names each point.

1. A (....., ...)

2. B (....., ...)



b) Find the distance between A and B.

.....

.....

.....

.....

.....

.....

.....

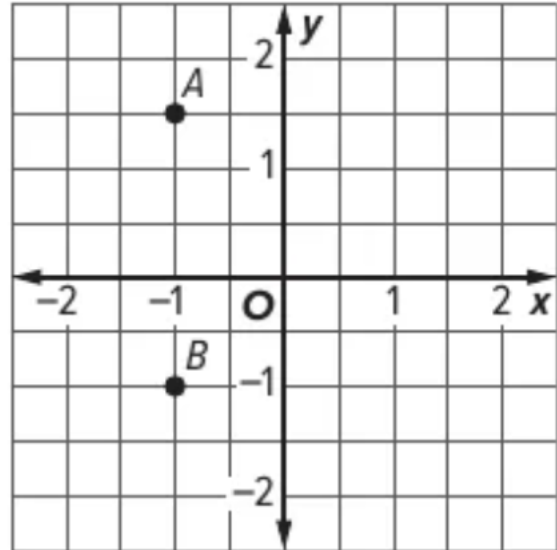
Question

2

a) Use the coordinate plane. Identify the ordered pair that names each point.

1. A (....., ...)

2. B (....., ...)



b) Find the distance between A and B.

.....

.....

.....

.....

.....

.....

.....

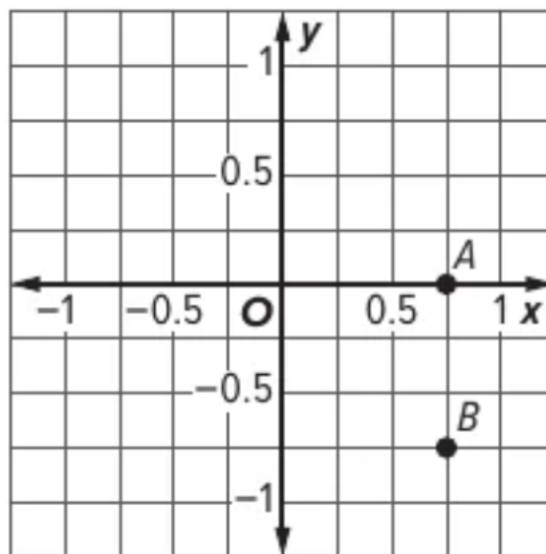
Question

2

a) Use the coordinate plane. Identify the ordered pair that names each point.

1. A (....., ...)

2. B (....., ...)



b) Find the distance between A and B.

.....

.....

.....

.....

.....

.....

.....

Question

3

Roy and 2 friends are at a game center. Each person buys a hot dog for \$3, fries for \$2.49, and a drink for \$2.50. They also have a coupon for \$1 off each drink.

a) Write an algebraic expression to represent the total cost of the items.

.....

.....

.....

.....

.....

b) Evaluate the expression and find the total cost.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Maya is shopping for the items shown in the table. She bought 6 bubbles, 2 beach balls, and 3 sand buckets.

Item	bubbles	beach ball	sand buckets
Cost	\$1.49	\$2.00	\$3.50

a) Write an algebraic expression to represent the total cost for all three people.

.....

.....

.....

.....

.....

b) Evaluate the expression and find the total cost.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Question

4

Given: $a = 4$, $b = 3$, $c = \frac{1}{3}$ Evaluate the expression:

$$(3a + 18c) \div b^2$$

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Question

4

Given: $a = 4$, $b = 3$, $c = \frac{1}{3}$ Evaluate the expression:

$$(2b + 3a)(c^2)$$

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Question

4

Given: $a = 4$, $b = 3$, $c = \frac{1}{3}$ Evaluate the expression:

$$(a^2 + 12c) \div (7b - 1)$$

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Question

5

After spending money on a golf outing, Ahmed had \$517.92 remaining in his checking account. The table shows how much money he spent on different items to participate in the outing.

Item	Cost (\$)
Entry Fee	94.50
Golf Shoes	44.25
Gloves	11.25

a) Write an equation to represent how much money Ahmed originally had in his checking account.

.....

.....

.....

b) Find how much money Ahmed originally had.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Question

5

Robin made **two batches of every item** shown in the table below. At the end of the day, she had **$1\frac{1}{4}$ cups of flour left**.

Baking Item	Amount of Flour
Bread	$1\frac{3}{4}$ cups
Muffins	2 cups
Pancakes	$1\frac{1}{2}$ cups

a) Write an equation that represents the total amount of flour Robin originally had on Saturday.

.....

.....

.....

b) Solve the equation to find how many cups of flour Robin originally had.
Show all your work and write your answer in simplest form.

.....

.....

.....

.....

.....

.....

.....

.....