

Unit Real Number System Homework 2 Answer Key

SOLUTIONS PRE-INTERMEDIATE WORKBOOK KEY

Unit 1

1A Personalities page 4

1

I	M	P	A	T	I	E	N	T	O	
F	R	E	P	A	F	I	K	A	P	
D	I	S	R	G	R	G	S	L	T	
U	N	S	E	E	U	O	H	K	U	
F	R	I	E	N	D	L	I	V	A	H
U	M	M	K	E	E	A	H	T	X	
N	E	I	Q	R	D	Z	E	I	S	
N	A	S	U	O	F	V	R	V	R	
Y	G	T	I	U	C	O	N	E	N	
L	Q	I	F	S	E	K	I	N	D	
S	E	C	U	N	K	H	Y	U	L	

- 2 1 kind 6 friendly
2 shy 7 lazy
3 rude 8 funny
4 talkative 9 impatient
5 pessimistic 10 generous

- 3 1 uncomfortable 5 untidy
2 dishonest 6 unlucky
3 unfit 7 disloyal
4 impolite 8 intolerant

- 4 1 uncomfortable 5 tolerant
2 fit 6 honest
3 impolite 7 lucky
4 untidy 8 disloyal

5 Students' own answers

1B Present simple and continuous page 5

- 1 1 'What do you do?' 'I'm a teacher.'
2 ✓
3 He goes to the gym every day.
4 I'm wearing jeans today.
5 I don't understand you.
6 ✓
7 What is she doing tomorrow evening?
8 ✓

- 2 1 do (you) come 6 do (you) do
2 'm staying 7 work
3 Do (you) like 8 'm not working
4 'm having 9 Do (you) want
5 'm studying

Challenge!

Students' own answers

- 3 1 b 2 a 3 a, b 4 a 5 a
6 b 7 b 8 b 9 a 10 b

- 4 1 'm watching
2 's playing
3 are (you) doing
4 'm going
5 are (you) going
6 are (you and Becky) meeting

1C Free time page 6

1 (Order may vary)

- 1 listen to music
2 watch TV
3 play chess
4 play computer games
5 play volleyball
6 go swimming
7 go to an aerobics class
8 read magazines
9 do sport
10 surf the Internet

- 2 1 Vanessa 3 Sarah
2 Ben 4 Martin

- 3 1 F 2 T 3 F 4 T 5 T 6 T
7 F 8 F

4 Students' own answers

Challenge!

- 1 in 2 on 3 to 4 with 5 on
6 in 7 on

1D verb + infinitive or -ing form page 7

- 1 1 going 6 getting up
2 playing 7 watching
3 having 8 living
4 thinking 9 copying
5 helping

- 2 1 to be picture c
2 to let picture f
3 to buy picture a
4 to pay picture b
5 to study picture e
6 to carry picture d

- 3 1 to help 8 staying in
2 chatting 9 to see
3 wearing 10 being
4 to tell 11 to arrive
5 to hear 12 watching
6 to go 13 singing
7 feeling 14 to come

- 4 Hi Jackie
How are you? I keep to phone you, but you're always out, so I decided sending you an e-mail. I'm having a very boring week. I spend all my time studying for the exams, but I refuse to work all weekend, too! So do you fancy to go to the cinema with me on Saturday? There are several good films on that I want to see. I don't mind seeing any of them, so you can choose. I hope hearing from you soon.
Lots of love,
William
to phone – phoning
sending – to send
to go – going
hearing – to hear

Challenge!

Students' own answers

1E Appearance page 8

- 1 1 rule 7 fashion
2 bans 8 head teacher
3 unfair 9 behave
4 uniform 10 agree
5 fashionable 11 generation gap
6 allowed to

- 2 1 punk 3 skater
2 hip-hopper 4 goth

- 3 1 smart tracksuits and expensive trainers
2 jeans and hooded tops
3 rock and heavy metal
4 skaters and punks
5 Green Day and Blink 182
6 goths and punks
7 hip hop and rap

4 present simple

Challenge!

Students' own answers

1F Giving an opinion page 9

- 1 1 chatting online
2 shopping
3 reading
4 doing sport
5 dancing
6 watching TV
7 drawing
8 taking photos
9 playing chess
10 listening to music
11 playing computer games
12 going out with friends

Challenge!

Students' own answers

- 2 1 d 2 c 3 a 4 b

3 Students' own answers

- 4 1 A 2 B 3 A 4 A

5 (Answers will vary)

- 1 What do you like doing in your free time?
2 What else do you like doing?

- 6 Ann What do you like doing in your spare time?

Jeremy I love listening to music.
Ann So do I. What's your favourite band?

Jeremy The Arctic Monkeys.

Ann Really? I prefer Keane. What else do you like doing?

Jeremy I like playing computer games.

Ann Do you? I can't stand playing computer games.

Unit real number system homework 2 answer key is a crucial resource for students seeking to understand the intricate world of real numbers. Real numbers form a fundamental part of mathematics, encompassing rational and irrational numbers, and they are essential in various fields, including science, engineering, and economics. This article will delve into the unit real number system, providing an overview of its components, common homework problems, and an answer key to help students verify their work and enhance their understanding.

Understanding the Unit Real Number System

The unit real number system is a mathematical framework that allows for the representation and manipulation of real numbers. It includes several key concepts that are essential for students to grasp.

1. Definition of Real Numbers

Real numbers can be defined as all the numbers on the number line. This includes:

- Rational Numbers: Numbers that can be expressed as a fraction of two integers (e.g., $\frac{1}{2}$, -3, 4.75).
- Irrational Numbers: Numbers that cannot be expressed as a fraction of two integers (e.g., $\sqrt{2}$, π , e).

2. Properties of Real Numbers

Real numbers possess several important properties that are foundational for mathematical operations:

- Closure Property: The sum or product of any two real numbers is also a real number.
- Commutative Property: The order in which two numbers are added or multiplied does not change the result (e.g., $a + b = b + a$).
- Associative Property: The way in which numbers are grouped during addition or multiplication does not change the result (e.g., $(a + b) + c = a + (b + c)$).
- Distributive Property: Multiplication distributes over addition (e.g., $a(b + c) = ab + ac$).

3. The Number Line

The number line is a visual representation of real numbers. Key features include:

- Origin: The point at which the number line crosses zero.
- Positive and Negative Numbers: Numbers to the right of zero are positive, while numbers to the left are negative.
- Irrational Numbers: These are often represented as non-repeating, non-terminating decimals on the number line.

Common Homework Problems in Unit Real Number System

In homework assignments, students often encounter a variety of problems that test their understanding of the unit real number system. Here are some common types of problems:

1. Simplifying Expressions

Students may be asked to simplify expressions involving real numbers, such as:

- $(3 + (-5))$
- $(2 \times (3 + 4) - 10)$

2. Solving Equations

Another common task is solving equations that include real numbers:

- Solve for x : $2x + 3 = 7$
- Solve for y : $y^2 - 9 = 0$

3. Working with Inequalities

Students might also need to solve inequalities, such as:

- $x - 4 < 2$
- $3y + 5 \geq 2$

4. Graphing Real Numbers

Graphing is an essential skill involving real numbers, where students may be asked to:

- Graph the equation $y = 2x + 1$.
- Identify the location of $\sqrt{2}$ on the number line.

Unit Real Number System Homework 2 Answer Key

Here is the answer key for a hypothetical homework assignment based on the common problems discussed above.

1. Simplifying Expressions

- Problem: $(3 + (-5))$
Answer: $(3 - 5 = -2)$
- Problem: $(2 \times (3 + 4) - 10)$
Answer: $(2 \times 7 - 10 = 14 - 10 = 4)$

2. Solving Equations

- Problem: Solve for x : $2x + 3 = 7$

Solution:

- Subtract 3 from both sides:

$$2x = 4$$

- Divide both sides by 2:

$$x = 2$$

- Problem: Solve for y : $y^2 - 9 = 0$

Solution:

- Factor the equation:

$$(y - 3)(y + 3) = 0$$

- Set each factor to zero:

$$y - 3 = 0 \text{ or } y + 3 = 0$$

- Solutions:

$$y = 3 \text{ or } y = -3$$

3. Working with Inequalities

- Problem: $x - 4 < 2$

Solution:

- Add 4 to both sides:

$$x < 6$$

- Problem: $3y + 5 \geq 2$

Solution:

- Subtract 5 from both sides:

$$3y \geq -3$$

- Divide both sides by 3:

$$y \geq -1$$

4. Graphing Real Numbers

- Problem: Graph the equation $y = 2x + 1$.

Answer: This linear equation can be graphed by plotting points. For example:

- When $x = 0$, $y = 1$ (Point: $(0, 1)$)

- When $x = 1$, $y = 3$ (Point: $(1, 3)$)

The line passes through these points.

- Problem: Identify the location of $\sqrt{2}$ on the number line.

Answer: $\sqrt{2}$ is approximately 1.414, so it is positioned between 1 and 2 on the number line.

Conclusion

The unit real number system homework 2 answer key serves as a valuable tool for students to check their work and deepen their understanding of real numbers. By familiarizing themselves with the definitions, properties, and operations of real numbers, students can enhance their mathematical skills and prepare for more advanced concepts. Whether simplifying expressions, solving equations, grappling with inequalities, or graphing functions, mastery of the real number system is essential for success in mathematics and its applications in the real world.

Frequently Asked Questions

What is the unit real number system in mathematics?

The unit real number system refers to the set of real numbers, which includes all rational and irrational numbers, represented on a continuous number line, where each number corresponds to a point on that line.

What type of problems might be included in 'Unit Real Number System Homework 2'?

Problems may include operations with real numbers, solving equations, inequalities, and understanding properties like the density of real numbers or how to work with intervals.

How can I find the answer key for Unit Real Number System Homework 2?

Typically, the answer key can be found in the course materials provided by your instructor, on the educational platform used by your school, or by asking classmates.

Are there online resources available for understanding the unit real number system?

Yes, there are many online resources including educational websites, video tutorials, and forums like Khan Academy, Coursera, and math-specific sites that can help you understand the unit real number system.

What are some common mistakes students make with real number operations?

Common mistakes include miscalculating with negative numbers, confusion between rational and irrational numbers, and improper handling of decimals and fractions.

How can I improve my understanding of the unit real number system?

To improve, practice solving different types of problems, review the properties of real numbers, and

utilize online resources or study groups for additional support.

Is the answer key for Unit Real Number System Homework 2 accessible to everyone?

The accessibility of the answer key varies by educational institution; some may provide it to all students, while others may restrict access to only teachers or specific groups.

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