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**RATIONAL AND IRRATIONAL NUMBERS WORKSHEETS**

Determine if the number is rational or irrational (R or I) for questions 1-5

1. 44

2.  $\frac{22}{6}$

3. 36

4.  $\sqrt{25}$

5.  $\frac{17}{54}$

6. Which of the following numbers are irrational?

a.  $\sqrt[4]{5}$

b.  $\sqrt[6]{64}$

c.  $\sqrt{7}$

d.  $\frac{1}{\sqrt[4]{81}}$

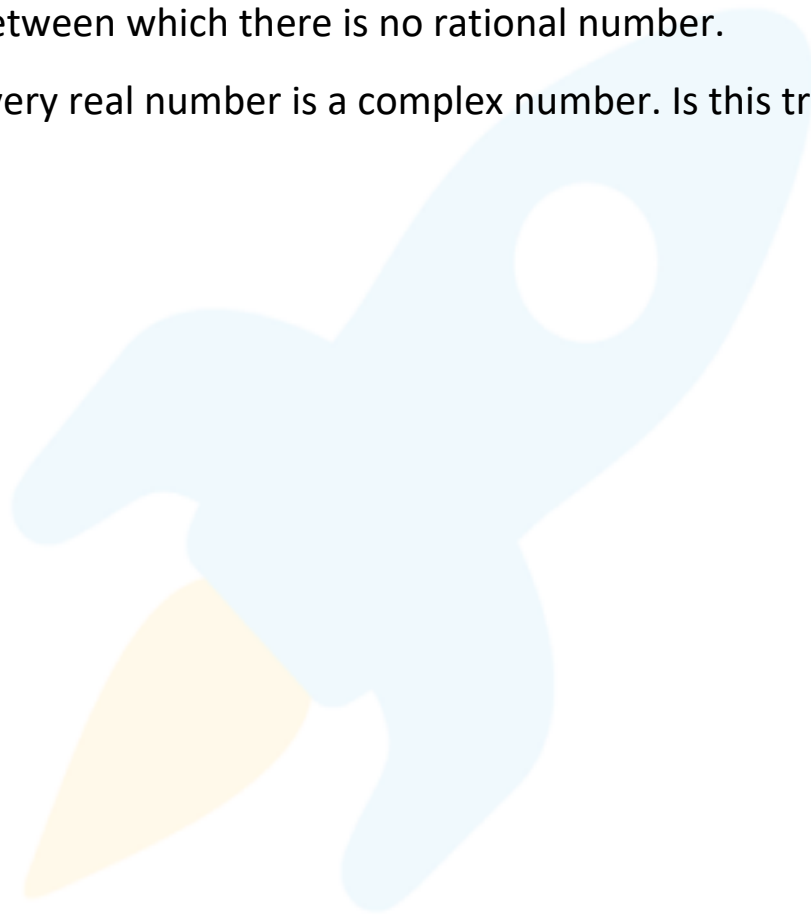
7. What is the product of the two conjugate surds  $5 + \sqrt{2}$  and  $5 - \sqrt{2}$ ?

8. The decimal representation of a rational number is

- a. always terminating
- b. either terminating or repeating
- c. either terminating or non-repeating
- d. neither terminating nor repeating
- e. always repeating and non-terminating

9. Which of the following statements are true?

- a. The real line has holes or gaps, corresponding to the irrational numbers.
- b. It is possible to find two distinct rational numbers between which there is no irrational number.
- c. It is not possible to find two distinct irrational numbers between which there is no rational number.
- d. Every real number is a complex number. Is this true or false?



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## Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

ANSWERS	
1.	R
2.	R
3.	R
4.	R
5.	R
6.	a. $\sqrt[4]{5}$ c. $\sqrt{7}$
7.	1
8.	b. either terminating or repeating
9.	c. It is not possible to find two distinct irrational numbers between which there is no rational number. d. Every real number is a complex number. Is this true or false?