



**Operations on Sets; Rational Numbers;
Exponents; Squares and Square Roots; Cubes
and Cube Roots; and Playing with Numbers.**

WORKSHEET 1

Question 1	How many rational numbers are there between $\frac{2}{10}$ and $\frac{5}{10}$? <ul style="list-style-type: none">• infinite• 3• 2• 5
Question 2	What will be the number of zeroes in the square of 202? <ul style="list-style-type: none">• 3• 2• 0• 1
Question 3	What is the cube root of 343? <ul style="list-style-type: none">• 9• 11• 3• 7



Question 4	<p>The cardinal number of set $A = \{x \mid x^2 + 5x + 6 = 0, x \in \mathbb{N}\}$ is</p> <ul style="list-style-type: none"> • 3 • 4 • 0 • 2
Question 5	<p>Between which two numbers will $-6/4$ lie on the number line?</p> <ul style="list-style-type: none"> • 0 and -1 • -1 and -2 • -2 and -3 • -3 and -4
Question 6	<p>If $U = \{a, b, c, \dots, g\}$, $A = \{a, c, d\}$ and $B = \{c, e, f\}$, then $A \cap B$ is</p> <ul style="list-style-type: none"> • $\{c\}$ • $\{e\}$ • $\{f\}$ • $\{a\}$
Question 7	<p>The smallest prime number is</p> <ul style="list-style-type: none"> • 1 • 2 • 0 • 3

Question 8	The cube of an even number is always _____. <ul style="list-style-type: none">• odd• even• prime• none of above
Question 9	A cubical room has an area of 9261 cubic metres. What is the length of the side of the room? <ul style="list-style-type: none">• 21 m• 24 m• 18.9 m• 12.5 m
Question 10	If the sum of the digits of a number is subtracted from the number, then the resulting number is always divisible by <ul style="list-style-type: none">• 2• 5• 8• 9

- x -

Answers

Answer 1	infinite
Answer 2	2
Answer 3	7
Answer 4	0
Answer 5	-1 and -2
Answer 6	{c}
Answer 7	2
Answer 8	even
Answer 9	21 m
Answer 10	9