



CBSE Grade 6th

Decimals

Q1) Write the following decimals in place value table.

a) 321.098

b) 23.70

Q2) Write each of the following in decimals and write them in words.

a) $400 + 7 + \frac{4}{10} + \frac{8}{1000}$

b) $\frac{7}{10} + \frac{4}{100} + \frac{5}{1000}$

Q3) Which one is greater?

a) 7.603 or 7.63

b) 0.99 or 0.099

Q4) Write the following as fraction in lowest term.

a) 0.05

b) 0.234

Q5) Between which two numbers in tenths place on the number line does each of the given number lies?

a) 0.07

b) 0.29

Q6) Represent 2.6 on number line.

Q7) Namita travels 20km 50 m every day. Out of this she travels 10km 200m by bus and rest by auto. How much distance does she travel by auto?

Q8) Ishaan bought vegetables weighing 10kg. Out of this 3kg 500g is onion, 2kg 75g is tomatoes and rest are potatoes. What is weight of potatoes?

Q9) The temperature of Mumbai at 8 am was 16.5 C. It rose by 6.5 C during the next 5 hours. A spell of rain brought the temperature down by 4.5C. It rose again by 2.5C. What was the measure of temperature at the end of the day?



Answer Key

Decimals Grade 6th

Sol1)

Number	Hundred	Tens	Ones	Point	Tenths	Hundredths	Thousandths
321.098	3	2	1	.	0	9	8
23.70	0	2	3	.	7	0	

Sol2)

a) 407.408

Four hundred seven point four zero eight

b) 0.745

Zero point seven four five

Sol3) a) 7.63

b) 0.99

Sol4)

a) $0.05 = \frac{5}{100} = \frac{1}{20}$

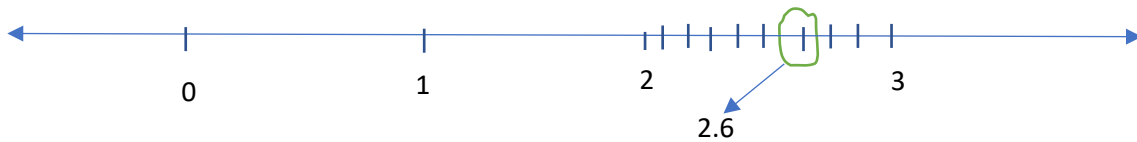
b) $0.234 = \frac{234}{1000} = \frac{117}{500}$

Sol.5)

a) 0.07 lies between 0.0 and 0.1

b) 0.29 lies between 0.2 and 0.3

Sol.6)



Sol.7)

Distance travelled everyday by Namita = 20km 50m = 20.050km

Distance travelled by bus = 10km 200m = 10.200km

Distance travelled by auto = 20.050 – 10.200 km

	1	9		10		
	2	0	.	0	5	0
	1	0	.	2	0	0
-						
	0	9	.	8	5	0

Distance travelled by auto = 9.850km 9km 850m

Sol.8)

Total weight of vegetables = 10kg

Weight of onions = 3kg 500g = 3.5kg

Weight of tomatoes = 2kg 75g = 2.075kg

sum of weight of onions and tomatoes = 5.575

	3	.	5	0	0
	2	.	0	7	5
+					
	5	.	5	7	5



Weight of potatoes = $10 - 5.575$

0	9		9	9	10
1	0	.	0	0	0
	5	.	5	7	5
-	<hr/>				
	4	.	4	2	5

Weight of potatoes = 4kg 425gm

Sol.9) At 8am temperature = 16.5°C

At 1pm temperature = $16.5 + 6.5 = 23^{\circ}\text{C}$

Temperature after rain = $23 - 4.5 = 18.5^{\circ}\text{C}$

Temperature after it again rose = $18.5 + 2.5 = 21^{\circ}\text{C}$

	1	1	.	
	1	6	.	5
		6	.	5
+	<hr/>			
	2	3	.	0

	1	12	.	10
	2	3	.	0
		4	.	5
-	<hr/>			
		8	.	5

	1	1	.	
	1	8	.	5
		2	.	5
+	<hr/>			
	2	1	.	0