Cosmo School

Class-4

Subject-Mathematics

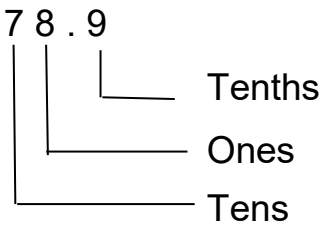
Chapter-9 (Decimals)

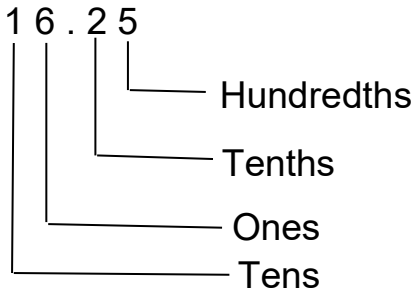
Date: 15 / 10 / 2020

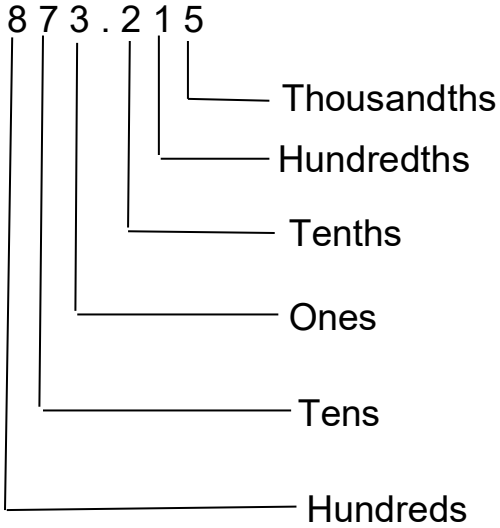
Revision Sheet (Solution)

1) Find the place value: 78.9, 16.25, 873.215

Solution:







2) Classify these numbers in decimals and integers.

269, 1.369, 789.0005, 23, 95.45, 6, 3.2, 39, 56, 2, 99.3

Solution:

Decimals: 1.369, 789.0005, 95.45, 3.2, 99.3

Integers: 269, 23, 6, 39, 56, 2

3) Which is larger? Write '<' or '>'.

a) 2.4 ☐ 1.8 , b) 7.1 ☐ 6.8 , c) 2.9 ☐ 3.9 , d) 4.5 ☐ 4.7

Solution:

a) 2.4 > 1.8

b) 7.1 > 6.8

c) 2.9 < 3.9

d) 4.5 < 4.7

4) Which is larger? Write '<' or '>' or '='

a) $\frac{8}{10}$ ☐ ***0.7, b) 0.5*** ☐ $\frac{5}{10}$, ***c)*** $\frac{10}{10}$ ☐ ***0.9, d)*** $\frac{7}{10}$ ☐ ***2.9***

Solution:

a) $\frac{8}{10}$ > 0.7

b) 0.5 = $\frac{5}{10}$

c) $\frac{10}{10}$ > 0.9

d) $\frac{7}{10}$ < 2.9

5) Do addition:

a) 5.52+2.65 b) 4.06+2.94 c) 8+2.56 d) 0.36+21 e) 789+ 2.36

f) 0.789+35.9 g) 789.006+459.02 h) 45.44+0.98 i) 99.99+10.00

j) 89.203+6.8

Solution:

a) 5.52+2.65

$$\begin{array}{r} 5.52 \\ +\ 2.65 \\ \hline 8.17 \end{array}$$

5.52+2.65 = 8.17

Ans: 8.17

b) 4.06+2.94

$$\begin{array}{r} 4.06 \\ +2.94 \\ \hline 7.00 \end{array}$$

4.06+2.94 = 7

Ans: 7

c) 8+2.56

$$\begin{array}{r} 8.00 \\ +2.56 \\ \hline 10.56 \end{array}$$

8+2.56 = 10.56

Ans: 10.56

d) 0.36+21

0.36

+21.00

21.36

0.36+21 = 21.36

e) 789+ 2.36

789.00

+ 2.36

791.36

789+ 2.36 = 791.36

Ans: 791.36

f) 0.789+35.9

00.789

+35.900

36.689

0.789+35.9 = 36.689

Ans: 36.689

g) 789.006+459.02

789.006

+459.020

1248.026

789.006+459.02 = 1248.026

Ans: 1248.026

h) 45.44+0.98

45.44

+ 0.98

46.42

45.44+0.98 = 46.42

Ans: 46.42

i) 99.99+10.00

99.99

+10.00

109.99

99.99+10.00 = 109.99

Ans: 109.99

j) 89.203+6.8

89.203

+06.800

96.003

89.203+6.8 = 96.003

Ans: 96.003

6) Do vertical addition:

a) 3.27	***b) 0.28***	***c) 4.07***	***d) 3.141***	***e) 3.57***	***f) 4.38***
+2.51	***+6.72***	***+3.6***	***+5.379***	***+1.24***	***+3.7***

g) 6.25 ***h) 0.82*** ***i) 3.079*** ***j) 234.9094***

+1.55 ***+2.39*** ***+ .397*** ***+ 28.5***

Solution:

a) 5.78 b) 7 c) 7.67 d) 8.52 e) 4.81 f) 8.08 g) 7.8

h) 3.21 i) 3.476 j) 263.4094

7) Do subtraction:

a) 4.80 – 3.59 ***b) 4 – 2.31*** ***c) 3.75 – 0.5***

d) 7.58 – 6.87 ***e) 25 – 12.5*** ***f) 459.2 – 26.897***

g) 5.4068 – 0.359 ***h) 7.36 - 2.36*** ***i) 79.503 - 23***

j) 3.069 – 0.4210

Solution:

a) 4.80 – 3.59 = 1.21

b) 4 – 2.31 = 1.69

c) 3.75 – 0.5 = 3.25

d) 7.58 – 6.87 = 0.71

e) 25 – 12.5 = 12.5

f) 459.2 – 26.897 = 432.303

g) 5.4068 – 0.359 = 5.0478

h) 7.36 - 2.36 = 5

i) 79.503 – 23 = 56.503

j) 3.069 – 0.4210 = 2.648

8) Do vertical subtraction:

a) 5.47	***b) 8.26***	***c) 4***	***d) 7.652***	***e) 5.38***	***f) 8.65***
-3.25	***- 3.4***	***-2.25***	***-6.648***	***-2.19***	***- 0.7***

g) 7.2	***h) 9***	***i) 1.467***	***j) 234.9094***
- 5.37	***-0.42***	***-0.397***	***- 28.5***

Solution:

a) 5.47	b) 8.26	c) 4.00	d) 7.652	e) 5.38	f) 8.65
-3.25	- 3.40	-2.25	-6.648	-2.19	- 0.70
2.22	4.86	1.75	1.004	3.19	7.95

g) 7.20	h) 9.00	i) 1.467	j) 234.9094
- 5.37	-0.42	-0.397	-028.5000
1.83	8.58	1.070	206.4094

9) Word problem

a) Container A has 0.5L of water. And container B has 0.3L of water. How many litre of water in all?

Solution:

Container A has 0.5 L of water

Container B has 0.3 L of water

∴ Total 0.8 L of water

Ans: 0.8 litre of water.

b) Samson traveled 5.52 km by bus and 2.65 km by boat. How much total path did he travel?

Solution:

Samson traveled by bus 5.52 km

Samson traveled by boat 2.65 km

∴ Total path 8.17 km

Ans: 8.17 km.

c) Hasan's bag weight 4.8 kg and Ripa's bag weight 3.59 kg. What is the difference in weight in kg?

Solution:

Hasan's bag weighs 4.80 kg

Ripa's bag weighs 3.59 kg

∴ Difference 1.21 kg

Ans: 1.21 kg.

d) Yesterday's highest temperature was 32.55 degrees Celsius and today's was 28.87 degrees. Find the difference?

Solution:

Yesterday's highest temperature was 32.55 degrees Celsius

Today's highest temperature was 28.87 degrees Celsius

∴ Difference 3.68 degrees Celsius

Ans: 3.68 degrees Celsius.

e) Container A has 0.5L of water. And container B has 0.3L of water. How much more water in A than B?

Solution:

Container A has 0.5 L of water

Container B has 0.3 L of water

∴ A has more 0.2 L of water

Ans: Container A has 0.2 litre of water more than container B.

f) To visit his grandmother, Luis takes a train 6.37 kilometers and a car 5.45 kilometers. How many kilometers is Luis's journey in total?

Solution:

Luis traveled by train 6.37 km

Luis traveled by car 5.45 km

∴ Total path 11.82 km

Ans: 11.82km.

g) Tania bought a book for 152.75 Taka, a pen for 45.25 Taka and a chocolate for 28.75 Taka. What amount did she spend?

Solution:

Tania bought a book for 152.75 Taka

Tania bought a pen for 045.25 Taka

Tania bought a chocolate for 028.75 Taka

∴ She spent in total 226.75 Taka

Ans: 226.75 Taka.

h) Nancy bought biscuits for 51.25 Taka. She gave a 100 Taka note to the shopkeeper. How much is she get back from the shopkeeper?

Solution:

Nancy gave to the shopkeeper 100.00 Taka

Nancy bought biscuits for 051.25 Taka

∴ She get back from the shopkeeper 48.75 Taka

Ans: 48.75 Taka.

10. Creative question:

i. Gautam's house is 8.2 Km to the west of the school. Shima's house is 9 Km to the east of her school.

a. How many kilometer is it from Gautam's house to Shima's house?

b. How many kilometer is the distance from school to Shima's house than the distance from school to Gautam's house?

Solution:

a) Gautam's house is 8.2 Km to the west of the school.

Shima's house is 9 Km to the east of her school.

∴ The distance between Gautam's house to Shima's house = (8.2 + 9) Km

= 17.2 Km

Ans: 17.2 Km.

Rough

8.2 Km

+ 9.0 Km

17.2 Km

b) The distance from school to shima's house = 9.0 Km

The distance from school to Gautam's house = 8.2 Km

∴ Difference = 0.8 Km

Ans: 0.8 Km.

ii. Container A has 0.5 litre of water. And container B has 0.3 litre of water.

a. How many litre of water in all?

b. How much more water in A than B?

Solution:

a) Container A has = 0.5 litre of water

Container B has = 0.3 litre of water

∴ Total = 0.8 litre of water

Ans: 0.8 litre.

b) Container A has = 0.5 litre of water

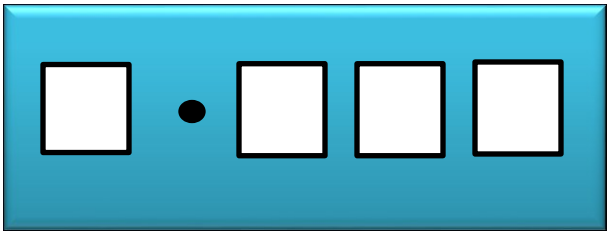
Container B has = 0.3 litre of water

∴ Container A has more = 0.2 litre of water

Ans: 0.2 litre.

iii. You have following four cards and make decimals using the format on the right.

1	3	5	0

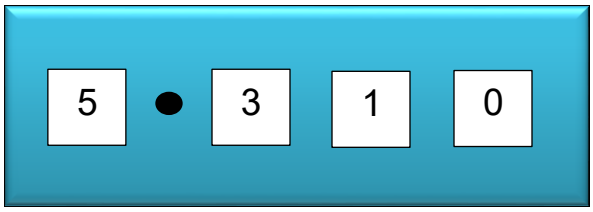


a. What is the largest number you can make?

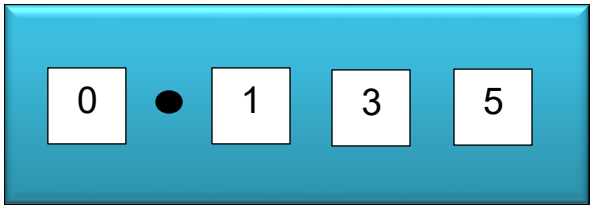
b. What is the smallest number you can make?

Solution:

a) The largest number



b) The smallest number



iv. Hasan's bag weight 4.8 kg and Ripa's bag weight 3.59 kg.

a. What is the total weight of their bags?

b. What is the difference in weight in kg?

Solution:

a) Hasan's bag weight = 4.80 Kg

Ripa's bag weight = 3.59 Kg

∴ Total weight = 8.39 Kg

Ans: 8.39 Kg.

b) Hasan's bag weight = 4.80 Kg

Ripa's bag weight = 3.59 Kg

∴ Difference = 1.21 Kg

Ans: 1.21 Kg.

11. Short question:

i. Write in number:

a) Seventy one point four three nine.

b) Two hundred two point three seven.

Ans: a) Seventy one point four three nine = 71.439

b) Two hundred two point three seven = 202.37

ii. Write in words:

a) 45.610

b) 761.264

Ans: a) 45.610 = Forty five point six one zero.

b) 761.264 = Seven hundred sixty one point two six four.

iii. What is the short form of 'centimetre', 'millimetre', 'kilogram' and 'gram'?

Ans: cm, mm, kg and g.

iv. How many cm is 1 mm?

Ans: $\frac{1}{10}$ cm / 0.1 cm.

v. How can you write 4 mm in cm?

Ans: $\frac{4}{10}$ cm / 0.4 cm.

vi. How can you write 100g in kg?

Ans: $\frac{100}{1000}$ kg / $\frac{1}{10}$ kg / 0.1 kg.

vii. How can you write 500g in Kg?

Ans: $\frac{500}{1000}$ kg / $\frac{5}{10}$ kg / 0.5 kg.

viii. Write the number made of twenty five 0.1s.

Ans: 2.5

$$25 \times 0.1 = \frac{25 \times 1}{10} = \frac{25}{10} = 2.5$$

ix. Write the number made of twenty 0.1s.

Ans: 2.0

$$20 \times 0.1 = \frac{20 \times 1}{10} = \frac{20}{10} = 2.0$$

x. How many 0.1s make 3.2?

Ans: Thirty two 0.1s make 3.2.

$$\frac{3.2}{0.1} = \frac{3.2 \times 10}{0.1 \times 10} = \frac{32}{1} = 32$$

xi. Which is larger 2.1 or 1.3?

Ans: 2.1

xii. Which is larger $\frac{2}{10}$ or 0.3?

Ans: 0.3.

xiii. Write the number made of one hundred and fifty five 0.01s.

Ans: 1.55

$$155 \times 0.01 = \frac{155 \times 1}{100} = \frac{155}{100} = 1.55$$

xiv. Write the number made of one hundred fifty five 0.001s.

Ans: 0.155

$$155 \times 0.001 = \frac{155 \times 1}{1000} = \frac{155}{1000} = 0.155$$

xv. How many 0.01s make 6.82?

Ans: Six hundred eighty two 0.01s make 6.82.

$$\frac{6.82}{0.01} = \frac{6.82 \times 100}{0.01 \times 100} = \frac{682}{1} = 682$$

xvi. How many 0.001s make 6.82?

Ans: Six thousand eight hundred twenty 0.001s make 6.82.

$$\frac{6.82}{0.001} = \frac{6.82 \times 1000}{0.001 \times 1000} = \frac{6820}{1} = 6820$$

xvii. a) 0.56×10 =?

b) 789.25×100 =?

Ans: a) 5.6

b) 78925

xviii. a) $789.25 \div 100$ =?

b) $100.26 \div 10$ =?

Ans: a) 7.8925

b) 10.026

xix. a) Convert 0.15 into Fraction.

b) Convert $\frac{1}{4}$ into decimals.

c) Convert $\frac{1}{100}$ into decimals.

Ans: a) 0.15 = $\frac{15}{100}$ = $\frac{3}{20}$

b) $\frac{1}{4}$ = $\frac{1 \times 25}{4 \times 25}$ = $\frac{25}{100}$ = 0.25

c) $\frac{1}{100}$ = 0.01

xx. a) Do addition : 5.52 + 2.65

b) Do subtraction: 4.8 – 3.59

Ans: a) 8.17

b) 1.21

Lecture sheet prepared by –

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