

## APSK HOLIDAYS WORKSHEET- VII-MATHS, 2019-20

Solve the worksheet on small separate single line notebook. Students to write the question first and then find the solution. Questions to be attempted in a proper sequence

### WORKSHEET NO 1 ( INTEGERS )

Q1 Arrange the following integers in ascending order: 35, -39, -102, 0, -51, -5, -6, 7

Q2 Arrange the following in descending order: -31, 139, -203, -97, 0, 4208

Q3 Find the sum of integers: -72, 237, 84, 72, -184, -37

Q4 Solve by using suitable properties.

(i)  $8 \times 53 \times (-125)$     (ii)  $(-6) \times 2 \times (-8) \times 5$     (iii)  $(-47) \times 1025$

Q5 Verify that :  $37 \times [6 + (-3)] = 37 \times 6 + 37 \times (-3)$

Q6 Find the product of (i)  $(-1) \times (-2) \times (-3) \times (-4)$     (ii)  $(-13) \times 0 \times (-24)$

Q7 Simplify using distributive property : (a)  $7250 \times (-31) + 7250 \times (-39)$

Q8 Verify that:  $(-50) \times [37 + (-7)] = (-50) \times 37 + (-50) \times (-7)$

Q9 Evaluate : (i)  $112 \div (-8)$     (ii)  $(-192) \div 24$     (iii)  $(-252) \div (-14)$

Q10 Verify that :  $a - (-b) = a + b$ , for the following values of a and b

(i)  $a = 21$ ,  $b = 18$     (ii)  $a = 75$ ,  $b = 84$

### WORKSHEET NO 2 ( Fractions and Decimals)

Q1 Reduce the fractions into simplest form

(i)  $\frac{48}{72}$     (ii)  $\frac{276}{115}$     (iii)  $\frac{72}{336}$

Q2 Simplify :  $2\frac{3}{4} + 5\frac{5}{6} + \frac{3}{8}$

Q3 Ram solved  $\frac{2}{7}$  part of an exercise while Reshma solved  $\frac{4}{5}$  of it. Who solved lesser part ? By how much?

Q4 If the speed of car is  $105\frac{1}{5}$  km/hr, find the distance covered by it in  $3\frac{3}{5}$  hours.

Q5 A rectangular sheet of paper is  $12\frac{1}{2}$  cm long and  $10\frac{2}{3}$  cm wide. Find its (i) perimeter (ii) area

Q6 The cost of  $5\frac{1}{4}$  kg apples is Rs 336. What is the rate of apples per kg?

Q7 The length of rectangular plot of area  $68\frac{3}{4}$  sq.m is  $12\frac{1}{2}$  m, find its width.

Q8 A ribbon is 42 metres long. How many pieces of length  $1\frac{3}{4}$  metres can be cut from it?

Q9 What number should be added to 3.56 gives 13.016?

Q10 What number should be subtracted from 30 to get 23.709?

### **WORKHEET NO 3 ( DATA HANDLING )**

Q1 The height ( in cm ) of 7 students of class VII in a school are 142, 153, 166, 161, 165, 149, 156. Find the mean height .

Q2 Find the mean of first five composite numbers.

Q3 The marks out of 100 obtained by a group of students in maths test are: 85, 76, 90, 85, 39, 48, 56, 95, 81, 75

Find ( i ) highest and lowest marks obtained by the students.

( ii ) Range of the marks obtained.

(iii) mean marks of the students.

Q4 Find the median of ( i ) 3, 1, 5, 6, 3, 4, 5

Q5 Find the median and mode of the data: 13, 16, 12, 14, 19, 12, 14, 13, 14

### **WORKSHEET – 4**

Q1 Write the place value of the digit 3 in each of the following and also write the expanded form. ( i ) 35.04 ( ii ) 53.04 ( iii ) 7.391 ( iv ) 719.413

Q2 Find ( i )  $30.94 \div 0.7$  ( ii )  $7.75 \div 0.25$  ( iii )  $2.73 \div 1.3$  ( iv )  $7 \div 3.5$

Q3 Find the mean of first five prime numbers.

Q4 Simplify using distributive property : (a)  $7250 \times (-31) + 7250 \times (-39)$  ( - 7 )

Q5 By what number should  $4\frac{7}{8}$  be multiplied to get  $87\frac{3}{4}$  ?

Q6 Evaluate : ( i )  $-40 \div 10$  ( ii )  $60 \div (-6)$  ( iii )  $0 \div (-14)$  ( iv )  $(-49) \div$

Q7 In a competition, 5 marks are given for every correct answer and ( - 2 ) marks are given for every incorrect answer.

(i) Anjali scored 30 marks .If she got 10 correct answers,how many questions she answered incorrectly?

(ii) Rohan got 4 correct answers. If he scored ( -12 ) marks in the competition ,how many questions he answered incorrectly?

Q 8 Is  $[ (-45) \div (-15) ] \div (-3) = (-45) \div [ (-15) \div (-3) ]$

Q9 Meeta finished colouring a picture in  $\frac{7}{9}$  hours .Vaibhav finished colouring the same picture in  $\frac{3}{4}$  hours.Who worked longer and by what fraction was it longer?

Q10 Reduce to standard form (a)  $\frac{36}{-24}$

Q11 Simplify  $[ (-6) + 5 ] \div [ - (-2) + 1 ]$

Q12 Find  $30.94 \div 0.7$

Q13 Find the median and mode of the given data:

Q14 Simplify using distributive property : (a)  $7250 \times (-31) + 7250 \times (-39)$

Q15 Solve  $8\frac{1}{2} - 3\frac{5}{8}$

Q16 Find the mean of first eight natural numbers.

Q17 Find the range and mean of first five multiples of 4

Q18 Subtract 83.23 from 98.73

Q19 Simplify :  $33.7 - 18.23 + 96.38 - 27.62$

Q20 The cost of  $5\frac{1}{2}$  kg sweet is Rs 185.50.Find the cost of 1 kg of sweet.

Q21 A piece of wire  $5\frac{1}{4}$  m long broke into two pieces.One piece is  $2\frac{1}{3}$  m long.How long is the other piece ? Which piece is longer and by how much?

Q22 Write down a pair of integers whose:

(i) sum is -7 (ii) difference is -10 (iii) sum is zero.

Q23 Convert the following decimals to fractions ( in simplest form )

(i) 0.25 (ii) 31.08 (iii) 74.085

Q24 Calculate and verify using distributive property over addition.

(i)  $7 \times (-4 + 3)$  (ii)  $(-7) \times [-15 + (-35)]$

Q25 Add the following ( i ) 45.3, 723.03, 8.243 and 52 ( ii ) 17.6, 106.73, 7.008, 23.4, 7.8

Q26 Find the area of square whose each side is 6.8cm

Q27 The product of two decimals is 2.4068.If one of them is 0.16,find the other.

Q28 The ages in years of 10 teachers of a school are : 32, 41, 28, 54, 35,26,23,33, 38 ,40

( i ) What is the age of the oldest teacher and the youngest teacher?

( ii ) What is the range of the ages if the teachers?

( iii ) What is the mean age of these teachers?

Q29 Simplify : ( I )  $7\frac{3}{4} - 3\frac{5}{6} + \frac{7}{8}$       ( ii )  $6\frac{1}{8} - 2\frac{1}{12} - 5\frac{1}{10} + 3\frac{7}{25}$

Q30 Rohit can walk  $5\frac{2}{5}$  km in one hour. How much distance will he cover in  $3\frac{1}{4}$  hours?