SNBP International & Senior Secondary School, Chikhali, Pune
Affiliation No. 1130703
Academic session 2024-25
Revision Worksheet - 02

Name: _____   Date :
Class: 7   Div: _____   Subject: Math
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Q.1) Verify the following.
 a) $(-42) \times [(-2) + (-5)] = [(-42) \times (-2)] + [(-42) \times (-5)]$
 b) $(-12) \times [(6) + (-2)] = [(-12) \times (6)] + [(-12) \times (-2)]$

Q.2) Evaluate.
 a) $(-70) \div 5$ b) $(-56) \div (-4)$ c) $(0) \div (-17)$ d) $[(-36) \div 4] \div 2$

Q.3) Write down a pair of integers whose :
 a) Sum is 6   b) Sum is 0   c) Difference is 6
 d) Difference is 8   e) Sum is 3   f) Sum is 14

Q.4) Multiply and reduce to lowest form and convert into a mixed fraction:
 (i) $6 \times \frac{2}{5}$ (ii) $8 \times \frac{1}{2}$ (iii) $4 \times \frac{3}{7}$

Q.5) Find:
 1) $\frac{3}{5}$ of   a) 34   b) $5\frac{2}{7}$ 2) 2.7×0.7 3) 120.07×1.3 4) $\frac{6}{8} \div 3$

 5) $2\frac{4}{7} \div 6$ 6) $\frac{3}{4} \times 6\frac{4}{5}$ 7) $4\frac{3}{7} \div \frac{6}{5}$ 8) $8.6 \div 10$
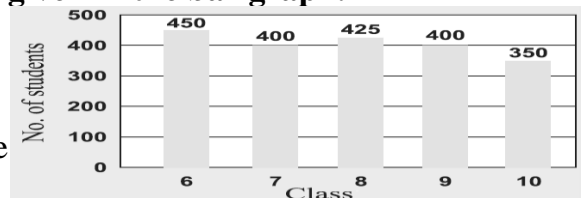
 9) $0.97 \div 1000$ 10) $3.098 \div 100$

Q.6) The number of students in each class of a school is given in the bar graph.
 1. In which class, is the student strength maximum ?
 2. What is the difference between the strengths in class 8 and class 10 ?
 3. What percentage of strength does class 6 have more than class 7 ?

Q.7) Find the mode, mean and median of the scores 4, 5, 7, 7,7, 8, 9, 13, 12, 8, 8, 9, 8, 10, 11, 12

Q.8) The following are weights (in kg) of 12 people.   70, 52, 54, 58, 62, 64, 75, 59, 62, 65, 58, 65
 (a) Find the mean of the weights of the people.
 (b) How many people weights above the mean weight?
 (c) Find the range of the given data.

Q.9) The following table shows the number of scooter produced by a company during six consecutive years. Draw a bar graph to represent the following data.

Year	2001	2002	2003	2004	2005	2006
No. of Scooters	11000	14000	12500	17500	15000	24000

Q.10) The heights of 10 girls were measured in cm and the results were as follows.
      143, 148, 135, 150, 128, 139, 149, 146, 151, 132
 a) What is the height of the tallest and shortest girl?   b) What is the mean height of the girls?

Q.11) Check whether the value given in the brackets is a solution to the given equation or not.
 a) $p + 6 = 12$ ($p = 6$)   b) $3 n - 4 = 15$ ($n = 4$)

Q.12) Solve the following equations by trail and error method.
 a) $5 k + 2 = 12$ b) $4 d - 20 = 4$

Q.13) Write the following equations in statement forms.
 a) $t - 8 = 3$ b) $\frac{n}{7} = 4$ c) $s + 4 = 13$ d) $3 x = 9$

Q.14) Write equations for the following statements.

a) 5 subtracted from y is 10. b) The number q divided by 7 gives 3.

c) Two-fifth of r is 12. d) 7 times t is 55.

Q.15) Give first step you will use to separate the variable and then solve the equation.

a) $5\,p = -45$ b) $\frac{t}{8} = 3$ c) $\frac{z}{5} = \frac{4}{7}$

d) $7\,m + 4 = 42$ e) $4\,q - 8 = 0$ f) $\frac{25\,p}{3} = 40$

Q.16) Find the complement of each of the following angles.

a) 55° b) 67° c) 30° d) 43°

Q.17) Find the supplement of each of the following angles.

a) 65° b) 51° c) 105° d) 113°

Q.18) In the following figure name the following pairs of angles:

(a) Obtuse vertically opposite angles.

(b) Adjacent complement angles.

(c) Equal supplementary angles.

(d) Unequal supplementary angles.

(e) Adjacent angles that do not form a linear pair.

Q.19) Find the value of x and y using suitable property:

Q.20) AM is a median of a triangle ABC. Is AB + BC + CA > 2AM ?

Q.21) Find the perimeter of the rectangle whose length is 40 cm and a diagonal is 41 cm.

Q.22) The diagonals of a rhombus measure 16 cm and 30 cm. Find its perimeter.

Q.23) ABCD is a quadrilateral. Is AB + BC + CD + DA >AC + BD ?

Q.24) PQR is a triangle, right-angled at P. If PQ = 10 cm and PR = 24 cm, find QR.

Q.25) ABCD is quadrilateral. Is AB + BC + CD + DA < 2 (AC + BD)

Q.26) Convert into percent.

a) $\frac{8}{6}$ b) $\frac{3}{4}$ c) 14.24 d) 0.98

Q.27) Find.

a) 15 % of 150 b) 30 % of Rs.3400 c) 60 % of it is 15 minutes

d) 10 % of it is 65 liters e) 35 % of it is 400 km f) 2 % of 1 hour

Q.28) Convert each part of the ratio to percentage:

a) 4:1 b) 3:2:5 c) 5:1:2

Q.29) Find the amount to be paid at the end of 4 years in each case:

a) Principal = Rs. 2,300 at 14 % p.a. b) Principal = Rs. 9,500 at 8 % p.a.

Q.30) Convert given percent to decimal fractions and also fractions in simplest forms.

a) 135 % b) 9 % c) 75 %

Q.31) Tell what is the profit or loss in the following transactions. Also find profit percent or loss percent in each case.

a) A Fan bought for Rs.34,000 and sold at Rs.35,600

b) A shirt was bought for Rs. 375 and sold at Rs. 170

Q.32) I buy a refrigerator for Rs.45,000 and sell it at a profit of 25%. How much money do I get for it?

Q.33) If Rita gives an interest of Rs.55 for one year at 9% rate p.a. What is the sum she has borrowed?

Q.34) In a city, 40% are females, 55% are male and remaining are children. What percent are children?

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