The City School

North Nazimabad Boys Campus
Revision Worksheet
Mathematics
Ms Hira Asad

Topic: Ratio, Rate & Proportion   **Class:7th**
Student's Name: _____   **Term: 2nd**

1. Explain each of the following ratio into its simplest form:

(a) $\dfrac{20}{30}$

_____

(b) 25:75

_____

(c) $\dfrac{20}{60}$

_____

(d) 30:60

_____

(e) $\dfrac{6}{6} : \dfrac{7}{10}$

_____

(f) $\dfrac{13}{40} : \dfrac{3}{8}$

_____

(g) 3.6 : 4.5

_____

(h) $1\frac{1}{2}:2$

_____

2. Express each of the following as a ratio of first quantity to the second.

(a) 20 cents, $1.20

_____

(b) 10 eggs, 2 dozen eggs

_____

(c) 3 min 30 sec, 1 hr

_____

3. Simplify these ratios:

(i) 2:10:12

_____

ii) 32:8:64

_____

4. Find the percentage change in each of case:

(i) an increase from $50 to $60

_____

_____

(ii) A decrease from $400 to $320

_____

_____

5. The price of a car is $4600. The price is reduced by 15%.

(i) What is the price reduction?

_____

_____

(ii) find the new price of the car?

_____

_____

6. A school has 20 teachers and 480 students.

(i) what is the teacher student ratio?

_____

_____

(ii) what is student teachers ratio?

_____

_____

(iii) Convert ratio of (i) into simplest form

_____

_____

7. Divide 250 in the ratio of 3:2

_____

_____

8. Ahmed's salary is Rs. 28, 000. His salary is increased by 5%. Work out his new salary.

_____

_____

_____

9. A rectangular metal sheet is 10.5m long and 1.5m wide. Calculate

(i) the ratio of its length to its width in simplest form

_____

(ii) the ratio of its length to its perimeter

_____

_____

_____

10 The market price of a television set is $360. If 5% decrease is offered for each television set bought, how much does a customer actually pay for a set?

_____

_____

_____

11 Find:

(a) Increase Rs. 30 in the ratio of 6:4

_____

_____

(ii) $\frac{2}{5}$ can be written as _____ in percentage.

(c) Divide 405 in the ratio of 3:7:7:10

_____

_____

_____

(d) Simplify the following ratio:

i) 12:16

_____

(ii) 1 hr 20 min : 4 hours

_____

_____

(e) A picture measuring 15cm by 75cm in enlarged in the ratio 8:5. Find the new dimensions.

_____

_____

_____

12 (a) The list price of a car is $98,800.

(i) If 12% decrease is given for each payment, find the cash price of the car.

_____

_____

_____

(ii) Jack choose to buy by purchase over 12 months and is given 10% more decrease. Calculate his monthly payment.

_____

_____

_____

(b) If 230 is decreased by 15%. What is the result?

_____

_____

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