**The City School**

**North Nazimabad Boys Campus**

2nd Monthly Test **(1st Term)**

Mathematics **(Paper A)**

Class **7**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Section: \_\_\_\_\_\_ **Max. Marks: 25**

 **SECTION A [12]**

**Q1) Choose the correct answer for the following questions. /6**

1. 40 Km = \_\_\_\_\_\_\_\_\_ m .

a) 400 b) 4000 c) 40,000 d) 0.004

2. In 24 hour clock 5:55 pm is expressed as \_\_\_\_\_\_\_\_\_\_\_\_.

a) 14:55 b) 15:55 c) 16:55 d) 17:55

3. If 8 : x = 48 : 18, then the value of “x” would be \_\_\_\_\_\_\_\_\_\_.

a) 4 b) 6 c) 3 d) 12

4. If radius of a circle is 5m, then its diameter will be \_\_\_\_\_\_\_.

a) 2m b) 4m c) 10m d) 50m

5. Distance of a trip is given by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a) time/speed b) speed/time c) speed x time d) avg. speed/total time

6. Equivalent ratio of 30 : 15 is \_\_\_\_\_\_\_\_\_\_\_.

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

**Q2) Fill in the blanks: /6**

1. When four quantities are in proportion then the product of extreme terms is \_\_\_\_\_\_\_\_\_to the product of means terms.
2. 1 km = \_\_\_\_\_\_\_\_\_cm.
3. Radius is half of the \_\_\_\_\_\_\_\_\_\_\_\_.
4. A ratio is always expressed in its \_\_\_\_\_\_\_\_\_\_\_\_\_\_ form.
5. Number of revolutions = \_\_\_\_\_\_\_\_\_\_\_ / circumference.
6. If 2: a = 4 : 3, then the value of “a” would be \_\_\_\_\_\_\_\_\_\_\_.

 **SECTION B ( 13)**

**Q3) Express the following ratios in their simplest form:**

1. 250 cm : 1m **/1**
2. **1 hr 20 min : 4 hr /2**
3. **78 : 96 : 120 /1**

**Q4) A man types 196 words in 30 minutes. How many words would he type per minute? /2**

**Q5) Complete the following table:**

|  |  |  |
| --- | --- | --- |
|  | **Boys** | **Girls** |
| **7th Grade** | 26 | 34 |
| **6th Grade** | 30 | 22 |

**Write each ratio as a fraction in simplest form: /2**

 7th grade girls to 6th grade boys \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7th graders to 6th graders \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total boys to total girls \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Girls to all of the students \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Q6) A man drives for 4 hrs at an average speed of 15 km/h and then walks for 2 hrs at an average speed of 8 km/h.**

1. Find his average speed for the whole journey. **/2**

1. Convert the average speed in m/s **/1**

**Q7) Find the ratio of a : b : c, when a : b = 3 : 4 and b : c = 5 : 9. /2**