Teacher Name: Ambreen Badar Class: 8 Subject: Mathematics

**Topic: Ratio, Rate and Speed**

Q1: Express 40 minutes after 5.50 pm.Using 24-hour clock notation.

Q2: Two types of rice are sold in the market one of them is sold at 10kg for $9.20. Whereas the other type is sold at 5 kg for $6.90.Find the ratio of their prices.

Q3: A rope is cut into three pieces in the ratio 1:3:5.Given that the length of the longest piece is 35m. Find the length of the shortest piece.

Q4: A bus leaves town X at 21 30 and arrives in town Y at 08 00 next day.

 Calculate:

 (a) The time taken for the journey.

 (b) The average speed of the bus given that the distance from Town X to Town Y is 651km.

Q5: The average speed of a car is 108 km/h. How many metres can the car travel in 3 mins.

Q6: A sum of money is divide among three brothers in the ratio 3 : 5 : 9. Calculate the smallest share if

 the largest share is $108.

Q7: Encircle the correct option.

1) How long does a fish take to swim 7km at a speed of 3 km/hr?

a. 21 hours

b. 2 hours 20 minutes

c. 2 hours 50 minutes

d. 2 hours 30 minutes

2) 90 km/h = ----------------- m/s

a. 324 m/s

b. 32.4 m/s

c. 25 m/s

d. 250 m/s

3) The ratio of 6 mins to 30 seconds is -----------------

a. 1 : 5

b. 12 : 1

c. 5 : 1

d. 1 : 6

Q8: Fill in the blanks :-

1. A car left town A at 0830 hours and arrived at town B at 1525 hours. Duration of journey is ---------.
2. A car completes a journey of 160 km in 2 hrs. The average speed of the car is -----------km/h.
3. The simplest form of the ratio 70 : 30 : 25 is ---------------------.
4. 0.6 : 18 in its simplest form is -------------------------.