Teacher Name: Ambreen Badar Class: 8 Subject: Mathematics Date: 7th April 2018

Q1: Fill in the blanks:

1. Simplified form of 64$x^{3}y^{5}$ $÷$ 8$x^{2}y^{2}$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. Make p the subject of formula, 5p – 7 = 3q \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. The LCM of $\frac{1}{xy^{2}z} - \frac{1}{xyz^{2}}+ \frac{1}{x^{2}y^{2}}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. A girl cycles for 3 hrs at a speed of 40 Km/h. The distance she travel is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Q2: (a) Simplify the following expressions:

1. $\frac{36xy^{2}}{108x^{2} y}$ ii) $\frac{8y}{26(w-x)^{2}}÷\frac{32}{4(w-x)}$

(b) $\frac{2x}{x-y}- \frac{3x}{x+y}$

Q3: (a) Simplify: $\frac{81b^{2}}{5a^{3}c^{2}} ÷ \frac{9b^{2}}{5a^{2}c^{5}} × \frac{18a^{3}b}{36a^{2}c^{2}}$

 (b) Make $x $ the subject of formula $\frac{b-x}{a}= \frac{x}{c}$

Q4: (a) Given that$ uv-t^{2 }= y^{2}$. Make $v $the subject of formula.

 (b) Express as a single denominator $\frac{4}{(x-1)^{2}}+ \frac{5}{x-1}$

Q5: Solve the given equations:

1. $\frac{3x+4}{2}$ =$ x-2$
2. $\frac{3x-4}{10}+ \frac{2x-3}{15} $= 2
3. $\frac{7}{2x-1}= \frac{3}{x-4}$
4. $\frac{3(x-1)}{2}- \frac{2x}{3}=0$

Q6: When 4 is added to a number and the result is divided by 5, the final result is 44 less

 than the original number. Find the number.

Q7: John is $\frac{1}{4}$ as old as his father. In 8 years’ time, the sum of their ages will be 61. How

 old is John’s father?

Q8: It takes 1 h 5 min for Bob to travel from home to his office. If he wants to reach the

 office by 8.30 a.m. what time should he leave his house?

Q9: A train leaves the station at 9:45 am and reaches its first destination at 12: 15 pm. The train begins its journey again after stopping for 20 minutes and reaches its final destination after 5 hours. What was the time when it reached its final destination?

Q10: A car leaves Singapore at 21 15 on Wednesday and arrives in Kuala Lumpur $5\frac{1}{2} $hrs later. At what time and day does the car arrives in Kuala Lumpur?

Q11: A man parked his car in a car park at 08 30 and retrieved it at 15 45 on the same day.

1. How long did he park his car in the car park?
2. If the parking charges are $1.50 for the first hour and 80 cents for each subsequent half hour or part of half hour thereof, how much must he pay for parking his car there?