# The City School <br> North Nazimabad Boys Campus <br> Blog Worksheet <br> Mathematics <br> Grade 7 <br> Proportion 

Q1.The weight of a piece of wire is directly proportional to its length. A piece of wire is 25 cm long and has a weight of 6 grams. Another piece of the samewire is 30 cm long. Calculate the weight of the 30 cm piece of wire.
Q2. p is inversely proportional to $\mathrm{m} . \mathrm{p}=48$ when $\mathrm{m}=9$. Calculate the value of p when $\mathrm{m}=12$.

Q3. The cost of a circular table is directly proportional to the square of the radius. A circular table with a radius of 40 cm cost $£ 50$. What is the cost of a circular table with a radius of 60 cm ?

Q4. The time taken, t seconds, that it takes a water heater to boil water is inversely proportional to the power, p watts, of the water heater. When $\mathrm{P}=2000 \mathrm{~W}, \mathrm{~T}=252$ seconds. Find the time it takes to boil water when $\mathrm{P}=800 \mathrm{~W}$.

Q5. It takes 4 men 6 hours to repair a road. How long will it take 8 men to do the job if they work at the same rate?

Q6.If 20 men can build a wall 56 metres long in 6-daysWhat length of a similar wall can be built by 35 men in 3 days?

Q7A garrison of 500 men had provisions for 24 days. However, a reinforcement of 300 men arrived. How many days the food will now last for?

Q8. 12 men, working 8 hours a day, complete a piece of work in 10 days. To complete the same work in 8 days, working 15 hours a day, the number of men required, is $\qquad$

