**WEEK ENDING.....23/09/2022.....**

**SUBJECT...MATHEMATICS**

**REFERENCE...SYLLABUS(CRDD,2007), MATHS FOR JHS .....**

**FORM.....BASIC 8.....WEEK.....2.....**

| ***DAY/DURATION*** | ***TOPIC/SUB-TOPIC/ASPECT*** | ***OBJECTIVES/R.P.K*** | ***TEACHER-LEARNER ACTIVITIES*** | **T/L MATERIALS** | **CORE POINTS** | **EVALUATION AND REMARKS** |
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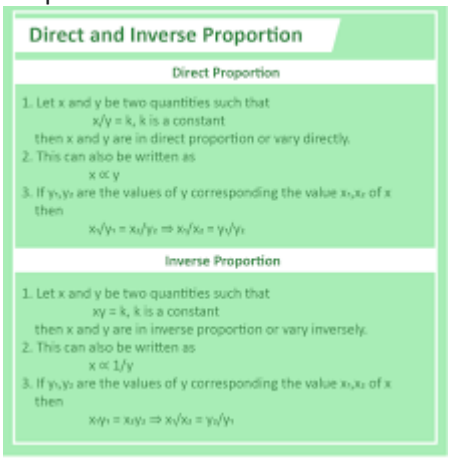
| **TUESDAY**<br><br>**20-09-2022**<br><br>**1:20PM – 2:40PM**<br>**80min** | **Topic;**<br><br>**Ratio and Proportion**<br><br>**Sub-Topic;**<br><br>Direct and Indirect Proportions | By the end of the lesson the Pupil will be able to;<br><br>solve problems involving direct and indirect proportions<br>**RPK**<br>Pupils can explain the meaning of direct and indirect Proportion as they were taught ratio and Proportion in basic 6. | **Introduction**<br>Pupils brainstorm to explain the meanings of direct and indirect Proportion.<br><br>**Activities**<br>1. Guide pupils to solve problems involving direct proportion using unitary method.<br>2. Pupils in small groups to express two quantities as ratios and proportion using the ratio method<br><br>**Closure** | **Pictures, Chart, Scale, beam balance.** | When two quantities X and Y are Directly Proportional to each other, we say "X is Directly Proportional to Y" or "Y is Directly Proportional to X". When two quantities X and Y are Inversely Proportional to each other, we say that "X is Inversely Proportional to Y" or "Y is Inversely Proportional to X"<br>  | **Exercise;**<br>1. Which of the following is in direct proportion? (a) One side of a cuboid and its volume. (b) Speed of a vehicle and the distance travelled in a fixed time interval. (c) Change in weight and height among individuals. |

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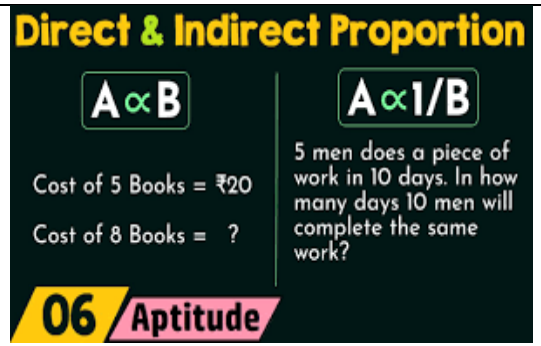
| | | | Through questions and answers, conclude the lesson. | |  <br>1. Meenakshee cycles to her school at an average speed of 12 km/h and takes 20 minutes to reach her school. If she wants to reach her school in 12 minutes, her average speed should be (a) 20 3 km/h (b) 16 km/h (c) 20 km/h (d) 15 km/h 12.<br>2. 100 persons had food provision for 24 days. If 20 persons left the place, the provision will last for (a) 30 days (b) 96 5 days (c) 120 days (d) 40 days<br>3. If two quantities x and y vary directly with each other, then (a) x y remains constant. (b) x – y remains constant. (c) x + y remains constant. (d) x × y remains constant.<br>4. If two quantities p and q vary inversely with each other, then (a) p q remains constant. (b) p + q remains constant. (c) p × q remains constant. (d) p – q remains constant.<br>5. If the distance travelled by a rickshaw in one hour is 10 km, then the distance travelled by the same rickshaw with the | (d) Number of pipes to fill a tank and the time required to fill the same tank<br>2. A car covers a distance in 40 minutes with an average speed of 60 km per hour. The average speed to cover the same distance in 30 minutes is…..? |

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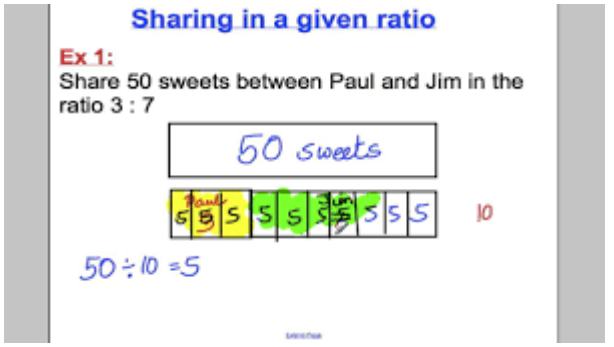
| | | | | | same speed in one minute is (a) 250 9 m (b) 500 9 m (c) 1000 m (d) 500 3 m | |
| **THURSDAY**<br><br>**22-09-2022**<br><br>**8:05AM – 9:15AM**<br>**70min** | **Topic;**<br><br>**Ratio and Proportion**<br><br>**Sub-Topic;**<br>Sharing Quantities according to Proportions | **Objective;**<br>By the end of the lesson the Pupil will be able to;<br><br>share a quantity according to a given proportion<br><br>**RPK**<br>Pupils have been taught Ratio and Proportion in the previous class. | **Introduction**<br>Review Pupils knowledge on the previous lesson.<br>**Activities**<br>1. Guide pupils to apply proportions in sharing quantities themselves.<br>2. Pupils practice solving questions on how to share quantities according to given proportions.<br><br>**Closure**<br>Through questions and answers, conclude the lesson. | **Pictures, Chart, Scale, beam balance.** | **Sharing quantities according to Proportions;**<br><br>**Example;** Ahmed and Ernest shared the profit gained from their business venture according to the proportion of the capital each contributed. If Ahmed contributed GH¢100 and Ernest contributed GH¢800 and Ernest's share of the profit was GH¢100, how much of the profit did Ahmed receive?<br><br>  | **Exercise;**<br>1. Yesterday, I put 10 gallons of gas in my car and I paid $30. A couple hours after, I went back to the gas station with my dad's car and after filling up the tank, I paid $18. How many gallons of gas did I put in my dad's car?" |

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| | | | | | | 2. If every gallon of gas costs $2 and I have $30 in my wallet, I'll be able to put 15 gallons in the tank and if I wanted to put in 20 gallons, I'd have to pay $40"<br><br>**REMARKS.** |