Grade 7 – Math

This task requires students to use proportional relationships to solve multi-step ratio problems.

QUESTION:

On Friday, three friends shared how much they read during the week.

- Barbara read the first 100 pages from a 320-page book in the last 4 days.
- Colleen read the first 54 pages from a 260-page book in the last 3 days.
- Nancy read the first 160 pages from a 480-page book in the last 5 days.

Part A: A person's average reading rate can be defined as the number of pages read divided by the number of days. Place the three friends' reading rates in order from greatest to least by clicking on the names and dragging them to the appropriate boxes.

Greatest Rate (pages per day) _____

_____

Least Rate (pages per day) _____

Barbara Colleen Nancy

Part B: If the three friends continue to read every day at their rates, who will finish reading her book first? Second? Third?

Order the friends from the first one who is predicted to finish her book to the third one who is predicted to finish her book. Click on the names and drag them to the appropriate boxes.

First _____

Second _____

Third _____

Barbara Colleen Nancy

ANSWER:

Part A:

Nancy (160 ÷ 5 = 32 pages per day)
Barbara (100 ÷ 4 = 25 pages per day)
Colleen (54 ÷ 3 = 18 pages per day)

Part B:

Barbara – (320 – 100) ÷ 25 = 8.8 days
Nancy – (460 – 160) ÷ 32 = 10.0 days
Colleen – (260 – 54) ÷ 18 = 11.4 days