

Activity 4, page 8 All Aboard

<u>Quantities</u>	<u>Value</u>
speed of passenger train	120 mph
speed of freight train	75 mph
distance between trains at start	583 miles
combined speeds of two trains	$120 + 75 = 195$ mph
amount of time spent traveling until they meet	$583 \div 195$ or approx. 2.9 hours
distance traveled by passenger train to get to meeting point	$120 \times (583/195)$ is approximately 358.8 miles from Chicago
distance traveled by freight train to get to meeting point	$75 \times (583/195)$ is approximately 224.2 miles from Birmingham

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number of boxes sold by region C

number of boxes sold by region D

number of boxes region D can sell per day in excess of region C

number of boxes region C is currently ahead of region D

number of days for region D to catch up to region C