

4. 1.2 #51 The old combine can harvest the crop in 72 hours, but the new combine can do the same job in 48 hours. How long does it take to harvest the crop with *both* combines working together?

5. 1.2 #53 Batman can clean up Gotham City in 8 hours. Robin can do the job in 12 hours. If Robin starts fighting crime at 8 a.m. and Batman joins in at 10 a.m., at what time will Gotham be crime-free?

6. 1.3 #19 Find the distance between and the midpoint of the two points $P(1, 3)$ and $Q(4, 7)$.