Lesson 11: Ratios of Fractions and Their Unit Rates

Problem Set

1. Determine the quotient: $2\frac{4}{7}÷1\frac{3}{6}$.
2. One lap around a dirt track is $\frac{1}{3}$ mile. It takes Bryce $\frac{1}{9}$ hour to ride one lap. What is Bryce’s unit rate, in miles, around the track?
3. Mr. Gengel wants to make a shelf with boards that are $1\frac{1}{3}$ feet long. If he has an $18$-foot board, how many pieces can he cut from the big board?
4. The local bakery uses $1.75$ cups of flour in each batch of cookies. The bakery used $5.25$ cups of flour this morning.
	1. How many batches of cookies did the bakery make?
	2. If there are $5$ dozen cookies in each batch, how many cookies did the bakery make?
5. Jason eats $10$ ounces of candy in $5$ days.
	1. How many pounds does he eat per day? (Recall: $16$ ounces $=1$ pound)
	2. How long will it take Jason to eat $1$ pound of candy?