

Name _____ Date _____

CCSS
8.EE.7

Kennel Fees

The prices for boarding a dog at three different kennels is described below.

Duke's Kennels: Charges a flat fee of \$40 for manners lesson, \$16.25 per day to board the dog, \$8.50 per day for play time with the dog

Lakeside Kennels: Charges a flat fee of \$40 for manners lesson, \$15.25 per day to board the dog, \$9.50 per day for play time with the dog

Sunbrook Kennels: Charges a flat fee of \$45.99 for manners lesson, \$18 per day to board the dog, \$6.75 per day for play time with the dog

1. You board your dog at Duke's Kennels and pay \$163.75. How many days did your dog stay at the kennel? Justify your answer. Assume you get a manners lesson and play time for your dog each day.
2. You board your dog at Lakeside Kennels and pay \$213.25. How many days did your dog stay at the kennel? Justify your answer. Assume you get a manners lesson and play time for your dog each day.
3. You board your dog at Sunbrook Kennels and pay \$144.99. How many days did your dog stay at the kennel? Justify your answer. Assume you get a manners lesson and play time for your dog each day.
4. After how many days would you pay the same fee to Duke's Kennels and Lakeside Kennels? Justify your answer. Assume you are paying all of the fees described above.
5. After how many days would you pay the same fee to Lakeside Kennels and Sunbrook Kennels? Justify your answer. Assume you are paying all of the fees described above.