

DONE

Name \_\_\_\_\_

## Iditarod Fractions

Math skills: subtraction, division, fractions

Iditarod mushers must ration food during the race and they must mix foods in particular quantities. In order to do that, the mushers must understand fractions.

The math problems below illustrate some ways in which Iditarod mushers might use fractions during the race.



1. Some mushers feed their dogs snacks called honey balls. Honey balls are made with honey, ground beef, and vitamins. On one dog team, only  $\frac{1}{3}$  of the dogs like the honey ball snacks. What fraction of the dogs will not eat honey ball snacks?
2. One Iditarod team has 18 dogs on it. If only  $\frac{1}{3}$  of the dogs on the team eat honey ball snacks, how many of the dogs eat them? (Write your answer as a whole number, not a fraction.)
3. How many of the 18 dogs will get a different snack? (Write your answer as a whole number, not a fraction.)
4. Along the Iditarod trail, there are 27 checkpoints. If a musher has gone through  $\frac{2}{3}$  of the checkpoints, how many of the 27 checkpoints has she passed through?
5. By the end of the race, each musher has dropped about  $\frac{1}{4}$  of the team's dogs. Mushers drop dogs that become tired or injured. They leave them at checkpoints where veterinarians will care for the dogs. If a musher has 16 dogs at the start of the race and drops  $\frac{1}{4}$  of them during the race, how many dogs finish the race?