

Examples of identifying the standard and creating a lesson idea to match the standard

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Using NCTM (National Council of Teachers of Mathematics) Standards  
(<http://standards.nctm.org/document/chapter3/index.htm>)

### **Number Sense and Operations:**

K-2 (Providing picture of team at the beginning of the race)

\* Count the maximum number of dogs on an Iditarod team at the beginning of the race in Willow, Alaska.

\* How many miles will a team travel from Anchorage to Nome this year? (Go to <http://www.iditarod.com/race/route.html> to find out.)

3-5 (Got to <http://www.iditarod.com/mushers/iditarodrules.html> to find out more about the Iditarod rules for mushers.)

\* A musher starts with 16 dogs and they must end with six dogs. How many dogs may be dropped during the race?

\* Find out how many teams started/will start this year. Teams may have up to 16 dogs per team at the beginning of the race. How many dogs were/will be at the beginning of the race?

\* Each musher must carry eight booties for every dog on the team. Each dog is wearing four booties. How many booties will a musher need at the start of the race if he/she starts with sixteen dogs at Willow?

### **Algebra:**

K-2 (Provide picture of dog team)

\* Sort dogs on team by color(s).

### **Geometry:**

K-2 (Provide picture of sled dog or use

<http://thecoloringspot.com/images/dogimg/alaskan-husky.jpg>)

\* Name any shapes you notice on the picture of the sled dog. What shape are the ears? What shape is the nose?

\* Use pattern blocks to fill-in picture of sled dog

3-5 (Provide picture of sled)

\* Name geometric shapes you see on the sled. Are there any squares? Rectangles? Triangles? Right triangles? Circles?

\* Find the parallel lines on the sled. Find the perpendicular lines on the sled.

## Measurement:

K-2 (Provide picture of sled dog or use

<http://thecoloringspot.com/images/dogimags/alaskan-husky.jpg>)

\*Which is longer, the dog's nose or the dog's tail?

\* Go to <http://www.iditarod.com/> and find out how many days until the next Iditarod (or how long this year's Iditarod has been running).

3-5

\* Go to <http://www.iditarod.com/> and find out what the temperature is in Alaska. Name the town listed.

\* Go to <http://www.iditarod.com/race/route.html> and find out how many miles were/are in this year's Iditarod.

## Data Analysis/Probability:

K-2 (Provide picture of dog team)

\* Sort dogs on team by color(s). Represent data by creating bar graph.

3-5

\* Go to <http://www.iditarod.com/> and create bar graph to represent the number of dogs on each team that reaches Nome.