

**2011 Iditarod Math Problems: Week 1 Day #1**

1. Three pieces of equipment were in the snow--a gangline, a sled bag, and a harness. They belong to Sonny, John and Mitch. John does not own the harness or the gangline. Sonny's equipment goes on the dog. Who owns the gangline?

	Sonny	John	Mitch
gangline			
sled bag			
harness			

KEY: X = no ☺ = yes

2. Between them, Jodi and Kristi have a total of 17 necklines. Kristi has five more than Jodi. How many necklines do they each have? Write an equation to show your thinking.

Jodi has \_\_\_\_\_ Kristi has \_\_\_\_\_



**2011 Iditarod Math Problems: Week 1 Day #2**

1. DeeDee, Rick, and Hans ran a sprint race with only six dogs each. Hans' time was faster than Rick's time, but Hans did not win.

Who won the race? \_\_\_\_\_

Who came in last? \_\_\_\_\_

2. Sam must be in Wasilla with his dogs for the vet check by 8:05am. It takes him three hours and ten minutes to get to Wasilla from his home. What time should Sam leave his home to arrive on time?

**2011 Iditarod Math Problems: Week 1 Day #3**

1. Aliy, Bruce, and Cain are racing toward the Iditarod finish line. What are all the possibilities for the way the race could have finished with those three mushers? *Hint: use letters (A, B, C) to list all the ways*

2. Four of Jodi Bailey's dogs raced each other. The dogs' names were Diesel, Freezer, Guppy, and Orchid. Orchid finished the race before Freezer but behind Diesel. Guppy did not win, but she beat Freezer and Orchid. Give the order of finish.

1<sup>st</sup>: \_\_\_\_\_ 2<sup>nd</sup>: \_\_\_\_\_

3<sup>rd</sup>: \_\_\_\_\_ 4<sup>th</sup>: \_\_\_\_\_

**2011 Iditarod Math Problems: Week 1 Day #4**

1. Five mushers named Paul, Ken, Ellen, Sebastian and Hugh shook hands at the mushers' banquet. How many handshakes were there if they each shook hands once? Draw a sketch of your findings.

2. In the morning the temperature was  $-30^{\circ}$  F. By noon it was  $-28^{\circ}$  F, and by 2:00 p.m. the temperature was  $19^{\circ}$  F. How many degrees did the temperature rise during the day?

## 2011 IDITAROD MATH QUIZ - WEEK #1



1. Three pieces of equipment were in the snow: a gangline, a sled bag, and a harness. They belong to Sonny, Hans, and Mitch. Hans does not own the harness or the gangline. Sonny's equipment goes on the dog. Who owns the gangline?


KEY: X = no ☺ = yes

2. Sam must be in Wasilla with his dogs for the vet check by 8:05am. It takes him three hours and ten minutes to get to Wasilla from his home. What time should Sam leave his home to arrive in on time?

Sam needs to leave at \_\_\_\_\_

3. Four of Jodi Bailey's dogs raced each other. The dogs' names were Diesel, Freezer, Guppy, and Orchid. Orchid finished the race before Freezer but behind Diesel. Guppy did not win, but she beat Freezer and Orchid. Give the order of finish.

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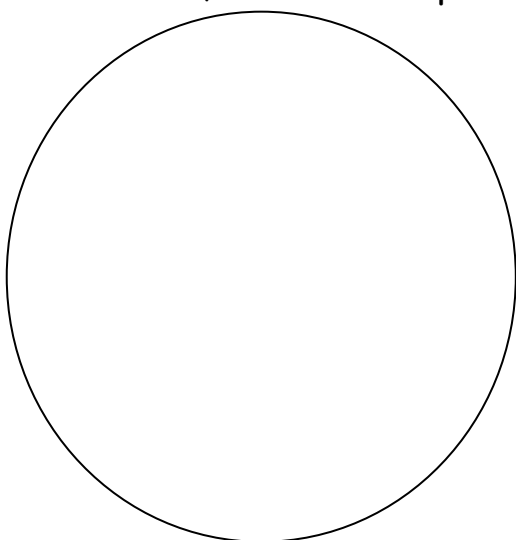
4. Between them, Jodi and Kristi have a total of 17 necklines. One musher has five more than the other. How many necklines do they each have? Write an equation to show your thinking.

Jodi has \_\_\_\_\_ Kristi has \_\_\_\_\_

**2011 Iditarod Math Problems: Week 2 Day #1**

1. How many dogs will leave Nome if each team has 16 dogs and there are 62 teams? Write an equation then solve it.

2. Jessie has a team of 16 dogs. 8 of the dogs have blue eyes, 2 have yellow eyes, 2 have brown eyes and 4 have black eyes. Draw a circle graph to show the percentage of eye colors. Fill in the chart to show the fraction, decimal and percent of each.



Eye Color	Fraction	Decimal	Percent
blue			
yellow			
brown			
black			

**2011 Iditarod Math Problems: Week 2 Day #2**

1. Matt and Dallas have 136 dogs combined in their separate dog kennels. Dallas has 12 more than Matt. How many dogs do they each have in their kennels? Write an equation and solve it.

Matt has \_\_\_\_\_ and Dallas has \_\_\_\_\_

2. Carole buys 17 big bags of dog food. She can only fit 2 bags into each grocery bag. How many grocery bags will she need? Write an equation and solve it.

**2011 Iditarod Math Problems: Week 2 Day #3**

1. John is standing in line to board the airplane headed to Anchorage. There are 36 people in front of him. There are 38 people behind him.

What is John's position in line? \_\_\_\_\_

How many people are standing in line? \_\_\_\_\_

2. Ray has 2 pairs of long underwear pants and 3 different shirts. How many different outfits can he make? Draw a sketch.

Ray can make \_\_\_\_\_ outfits.



**2011 Iditarod Math Problems: Week 2 Day #4**

1. There are 10 black huskies, 4 white huskies, and 6 gray huskies.

What <b>fraction</b> of the team is <b>gray</b> ? →		What <b>percent</b> of the team is <b>gray</b> ? →	
What <b>fraction</b> of the team is <b>black</b> ? →		What <b>percent</b> of the team is <b>black</b> ? →	
What <b>fraction</b> of the team is <b>white</b> ? →		What <b>percent</b> of the team is <b>white</b> ? →	

2. Ramey has 32 dogs. He buys 12 more and then gives 2 dogs that aren't great athletic to a friend. Next, he decides to put 7 dogs on a practice team. How many teams can he make? Show your thinking.

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What <b>fraction</b> of the team is <b>white</b> ? →		What <b>percent</b> of the team is <b>white</b> ? →	

4. Ray has 2 pairs of long underwear pants and 3 different shirts. How many different outfits can he make? Draw a sketch.