

Proportions

Background:

Katniss has found a safe place rest. She begins to check the bag with supplies:

“One thin sleeping bag that reflects body heat. A pack of crackers. A pack of dried beef strips. A bottle of iodine. A box of wooden matches. A small coil of wore. A pair of sunglasses. And a half gallon plastic bottle with a cap for carrying water that’s bone dry.”(P.154)

Katniss does not have much food to last her through the games. She is worried she will not have enough for survival. Instead of eating all the food at once she must portion it the best she can.

- 1.) There are six crackers in the pack of crackers. She thinks she will be in the games for 10 days. How many cracker should she eat per day?

$$\frac{x}{1} = \frac{6}{10}$$

How much crackers to eat per day → x ← Number of crackers
Each day → 1 ← Number of days in the games
← 6
← 10

- 2.) There are 3 dried beef strips in the pack. She thinks she will be in the games for 6 days. How many beef strips should she eat per day?

- 3.) There are 3 dried beef strips and 6 crackers. She thinks she will be in the games for 12 days. How much should she eat per day?

4.) Pick the best portion of food for Katniss if she is in the games for 3 weeks.

- a.) 1 cracker and $\frac{1}{2}$ a beef strip a day
- b.) $\frac{1}{2}$ a cracker and $\frac{1}{4}$ of a beef strip a day
- c.) $\frac{1}{4}$ of a cracker and 1 beef strip a day
- d.) 2 crackers and $\frac{1}{4}$ of a beef strip a day

5.) Should Katniss portion her food or eat when she gets hungry? What is the smarter thing to do?

Proportions Answer Key

- 1.) 0.6 crackers
- 2.) 0.5 beef strips
- 3.) 0.75 of her food per day
- 4.) C
- 5.) The smartest thing for Katniss to do is to portion her food