Do we have enough food?



 This problem is only difficult to answer because it has a lot of parts. Finding the answer just requires subtracting and comparing fractions

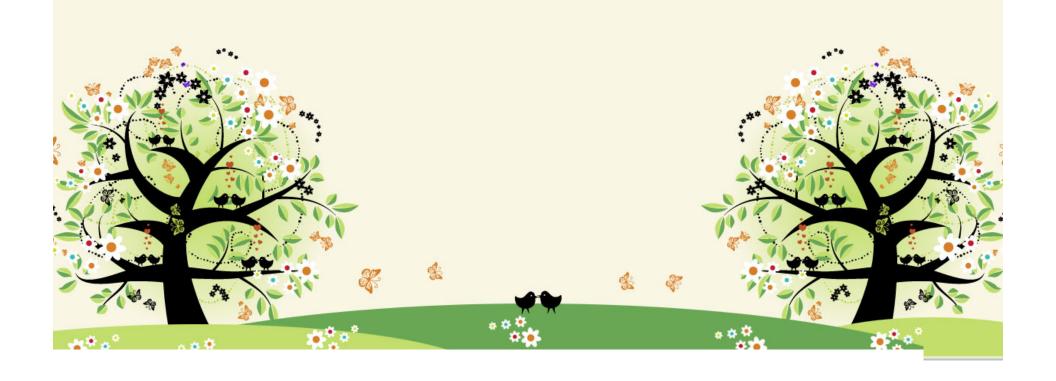


Identifying the steps in the problem

- 1. Find how far we have gone.
- 2. Subtract how far we have gone from the total distance.
- 3. Figure out what fraction that is of the whole.
- 4. Find the fraction of food we have left.
- 5. Compare the distance left to the food left.

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Let's do a similar problem







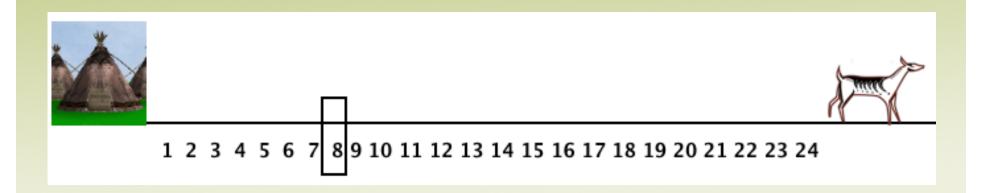
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

It is 24 days to the deer hunting grounds. You are here. You brought 3 carts full of food

and 1 cart is empty.



Find how far we have gone.



It says on the number line we are at 8. So, we have traveled 8 days out of 24 days it takes to get to the hunting grounds.



2. Subtract how far we have gone from the total distance.

24 days - 8 days = 16 days



3. Figure out what fraction the remaining distance is of the whole.

$$\frac{16 \text{ days left}}{24 \text{ days total}} = \frac{2}{3}$$



3. How do you get 2/3?

Divide the top and the bottom by 8.

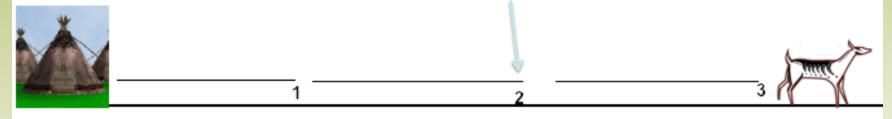
$$16 \div 8 = 2$$

 $24 \div 8 = 3$

$$\frac{16 \text{ days left}}{24 \text{ days total}} = \frac{2}{3}$$

Remember this number

$8 = \frac{1}{3}$ of 24



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

You can see that if we divided our trail into 3 parts, the first $\frac{1}{3}$ would be 8 days of travel, $\frac{2}{3}$ would be 16 days



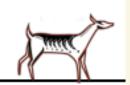
4. Find the fraction of food we have left.

Let's look at the problem again

Keep remembering this number

23





1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

It is 24 days to the deer hunting grounds. You are here. You brought 3 carts full of food

and 1 cart is empty.



4. Find the fraction of food we have left.

2 carts left 3 carts total =

Keep remembering this number

23

5. Compare the distance left to the food left.

$$\frac{2 \text{ carts left}}{3 \text{ carts total}} = \frac{2}{3}$$

$$\frac{16 \text{ days}}{24 \text{ days}} = \frac{16}{24} = \frac{2}{3}$$

We have 2/3 of the food left and 2/3 of the journey left

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Do we have enough food left?

Yes! Because 2/3 = 2/3



Here is how it works







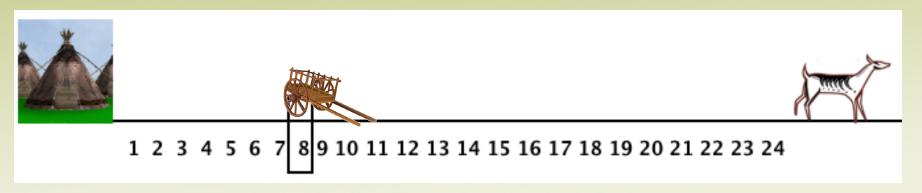
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24





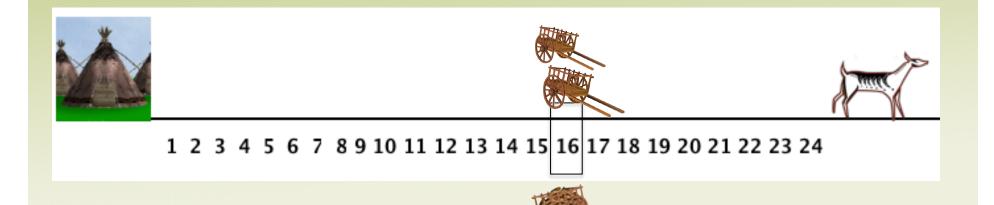


Here is how it works





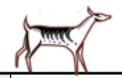




After 16 days, you have traveled 2/3 of the distance to your destination and eaten 2/3 of your food







1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

After 24 days, you've traveled 3/3 of the way - the whole distance - and eaten 3/3 of the food - all of your food



