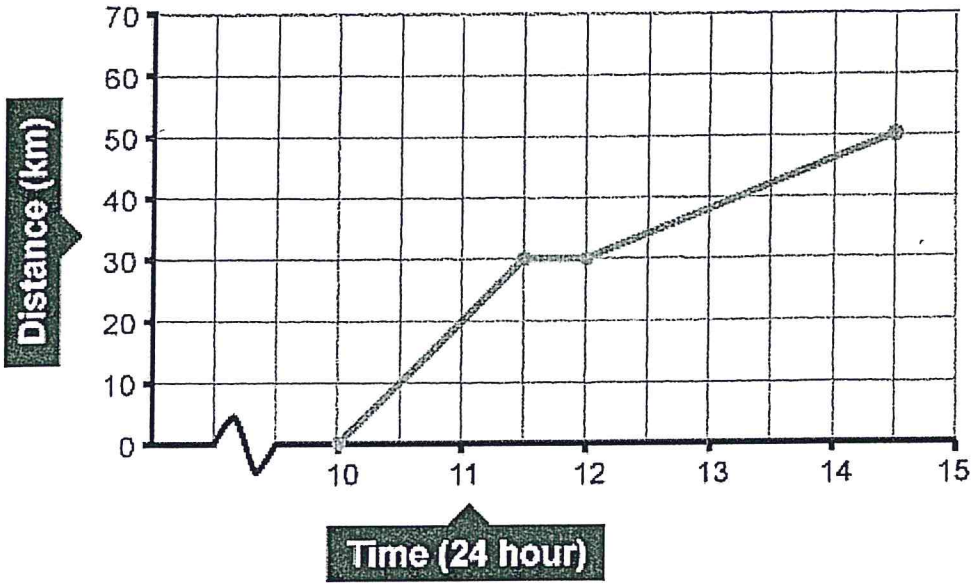
Algebra 1 Bellwork 6th hour Thursday, December 3, 2015

John was on a cycling holiday. He drew this graph to show how far he cycled on one day.



1. How far did John cycle that day?

2. How much time did John spend **cycling**?

3. John stopped to fix his bike. What time was that, and how long did it take?

4. When did John travel at his fastest speed? Explain your answer.

5. a. How much time did John cycle on the last portion of his trip?

b. How many km did John travel on the last portion of his trip?

c. What was John's average speed in km/hr for the last portion of his trip?

6. How fast did John travel on the first portion of his trip?

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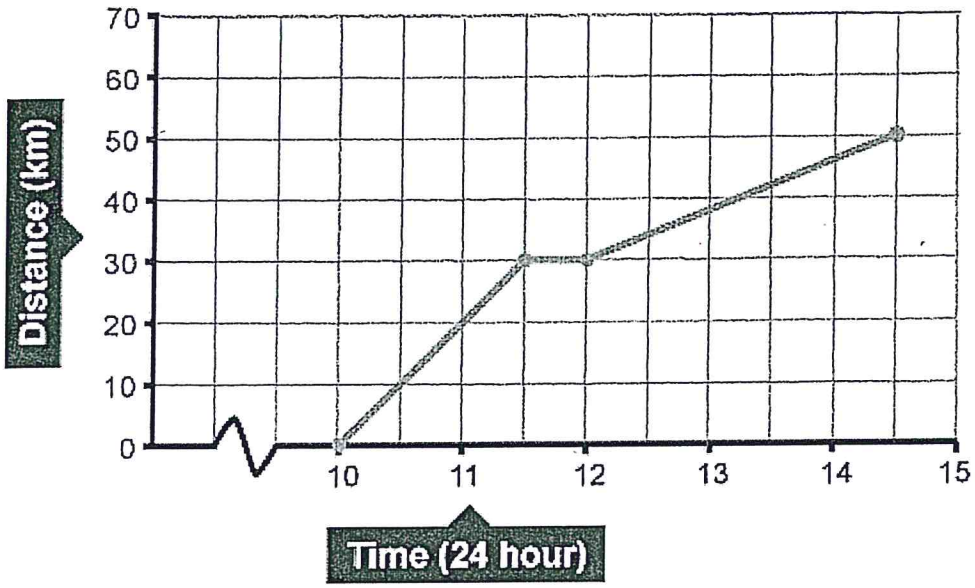
Answers



1. How far did John cycle that day? 50 km

2. How much time did John spend **cycling**?

$1\frac{1}{2}$ hrs + $2\frac{1}{2}$ hrs = 4 hrs

3. John stopped to fix his bike. What time was that, and how long did it take?

he stopped at 11:30 am for $\frac{1}{2}$ an hour

4. When did John travel at his fastest speed? Explain your answer.

from 10:00 to 11:30. This portion of the graph is the steepest.

5. a. How much time did John cycle on the last portion of his trip?

$2\frac{1}{2}$ hrs

b. How many km did John travel on the last portion of his trip?

20 km

c. What was John's average speed in km/hr for the last portion of his trip?

$\frac{20 \text{ km}}{2\frac{1}{2} \text{ hrs}} = 8 \text{ km/hr}$

6. How fast did John travel on the first portion of his trip?

$\frac{30 \text{ km}}{1\frac{1}{2} \text{ hrs}} = 20 \text{ km/hr}$