

Speed

Spe Eddy

Let's do it quickly!

1 Problem – Number of pages

Piotr Nieżurawski, update: 2017-09-10, id: en-numbers-0000500, diff: 1

Wanda started reading a book at the beginning of page 32. After two hours she finished at the end of page 79.

- How many pages did she read?
- How many pages did she read on average in one hour?

Hint: If Wanda started reading at the beginning of page 1 and finished at the end of page 2, how many pages would she read?

Answer: Wanda read 48 pages, her average rate was 24 pages per hour.

2 Problem – Cycling speed

Piotr Nieżurawski, update: 2016-07-30, id: en-speed-distance-time-0004000-dpc, diff: 3

Max went by bike from the starting line and rode at the average speed 5.7 m/s. Ann started from the same line 10 s after Max and she finished the race 10 s before Max. Both, Ann and Max, travelled the same distance. What was the Ann's average speed if the total time of her ride was equal to 570 s?

Hint: How much time was Max biking? Answer: 590 s.

Hint: What was the length of the route? (Max...) Answer: 3363 m.

Answer: Ann was cycling with speed 5.9 m/s.

3 Problem – Accelerating airplane

Piotr Nieżurawski, update: 2016-07-30, id: en-kinematics-0000500-dpc, diff: 1

An airplane, initially at rest in the airport, started to move along a runway with the constant acceleration equal to 8.94 m/s^2 . Calculate the airplane's speed after the time of 7 s.

Hint: $v = at$

Answer: 62.58 m/s