

Math-6

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Speed Practice Exam

Apr. 27, 2018

_____, _____
Last name (please print)

First name (please print)

____ Understand the relationship between speed, distance, and time in a variety of contexts

____ Work a variety of word problems

1 - Does not meet expectations, 2 - Approaches expectations, 3 - Meets expectations, 4 - Exceeds expectations

- Clearly written well reasoned solutions make it easier for the grader to appreciate what you know. Messy or poorly reasoned solutions have the opposite effect.
- You have 70 minutes and there are 8 questions. So you have an average of 8.8 minutes per question. Some questions are routine, leaving you more time for those that are less routine. You should not have to rush. Check your work.
- A lot of space follows some questions. That does not necessarily mean the solution is long.
- Answers must be supported by correct work.
- Only work included on these exam pages will be considered. Any additional sheets turned in with this exam will be ignored. If you need scrap paper, just ask.
- Advice.
 - First pass: skip problems you cannot do easily.
 - Second pass: work problems you skipped on first pass.
- This exam consists of 8 pages. Keep turning pages until you know you have reached the end.

4. Josh took 3 hours to drive from Town A to Town B at an average speed of 40 miles per hour. How long would he take if he drove at an average speed of 60 miles per hour?

5. The distance of Place B from Place A is 120 miles. Janet bicycled at a speed of 12 miles per hour from Place A to Place B. She made the return trip from Place B to Place A by automobile at a speed of 60 miles per hour. What was Janet's average speed for the entire round trip?

6. Al drove from Place X to Place Y. He took 5 hours to travel $\frac{2}{3}$ of the journey. He took 1 hour to travel the remaining 60 miles. Find his average speed for the whole journey.

7. Jill took 3 hours to travel from Town A to Town B. Her average speed for the whole journey was 60 miles per hour. For the first $\frac{5}{6}$ of the journey, she traveled at an average speed of 75 miles per hour. Find her average speed for the final $\frac{1}{6}$ of the journey.

8. John passed Place A at 1:00 PM. He drove at a speed of 60 miles per hour. Later, a police officer who was chasing after John passed Place A. The police officer drove at a speed of 90 miles per hour. The police officer caught up with John at 1:15 PM. At what time did the police officer pass place A?

Answers

1. 4h
2. 120m
3. 500 mi/h
4. 2h
5. 20 mi/h
6. 30 mi/h
7. 30 mi/h
8. 1:05 p.m.

