

Homework #6 - Rate of Work Problems

Date _____ 5T _____

Solve each question using a "LET" statement. Round your answer to the nearest hundredth.

- 1) Danielle can pick forty bushels of apples in 8 hours. John can pick the same amount in 13 hours. Find how long it would take them if they worked together.
- 2) Working alone, Paul can clean an attic in 8 hours. One day his friend Norachai helped him and it only took 4.8 hours. Find how long it would take Norachai to do it alone.
- 3) Working alone, Bill can mop a warehouse in eight hours. One day his friend Lea helped him and it only took 4.44 hours. Find how long it would take Lea to do it alone.
- 4) It takes Cody 13 hours to harvest a field. Abhasra can harvest the same field in 10 hours. If they worked together how long would it take them?

5) Working together, Jessica and Trevor can wash 10 trucks in 5.83 hours. Had he done it alone it would have taken Trevor 10 hours. Find how long it would take Jessica to do it alone.

6) Working together, Paul and Wilbur can oil the lanes in a bowling alley in 4.42 hours. Had he done it alone it would have taken Wilbur 9.1 hours. Find how long it would take Paul to do it alone.

7) It takes Jasmine 11 minutes to sweep a porch. Jack can sweep the same porch in 12.6 minutes. Find how long it would take them if they worked together.

8) Working together, Kristin and Shreya can pick forty bushels of apples in 4.59 hours. Had she done it alone it would have taken Shreya 8.1 hours. Find how long it would take Kristin to do it alone.

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Date _____ 5T _____

Solve each question using a "LET" statement. Round your answer to the nearest hundredth.

- 1) Danielle can pick forty bushels of apples in 8 hours. John can pick the same amount in 13 hours. Find how long it would take them if they worked together.

4.95 hours

- 2) Working alone, Paul can clean an attic in 8 hours. One day his friend Norachai helped him and it only took 4.8 hours. Find how long it would take Norachai to do it alone.

12 hours

- 3) Working alone, Bill can mop a warehouse in eight hours. One day his friend Lea helped him and it only took 4.44 hours. Find how long it would take Lea to do it alone.

9.98 hours

- 4) It takes Cody 13 hours to harvest a field. Abhasra can harvest the same field in 10 hours. If they worked together how long would it take them?

5.65 hours

5) Working together, Jessica and Trevor can wash 10 trucks in 5.83 hours. Had he done it alone it would have taken Trevor 10 hours. Find how long it would take Jessica to do it alone.

13.98 hours

6) Working together, Paul and Wilbur can oil the lanes in a bowling alley in 4.42 hours. Had he done it alone it would have taken Wilbur 9.1 hours. Find how long it would take Paul to do it alone.

8.59 hours

7) It takes Jasmine 11 minutes to sweep a porch. Jack can sweep the same porch in 12.6 minutes. Find how long it would take them if they worked together.

5.87 minutes

8) Working together, Kristin and Shreya can pick forty bushels of apples in 4.59 hours. Had she done it alone it would have taken Shreya 8.1 hours. Find how long it would take Kristin to do it alone.

10.59 hours