

## Word Problem Review for 27 Week Test

- 1) An Air Force plane left Singapore and flew south. Three hours later a cargo plane left flying at 330 mph in an effort to catch up to the Air Force plane. After flying for seven hours the cargo plane finally caught up. Find the Air Force plane's average speed.
- A) 245 mph      B) 231 mph  
C) 295 mph      D) 110 mph
- 2) Joe left the science museum traveling north two hours before John. John traveled in the opposite direction going 25 mph slower than Joe for two hours after which time they were 400 mi. apart. What was Joe's speed?
- A) 121 mph      B) 35 mph  
C) 75 mph      D) 70 mph
- 3) Emily left the White House and drove toward the desert at an average speed of 50 km/h. Wilbur left some time later driving in the opposite direction with an average speed of 65 km/h. After Emily had driven for five hours they were 510 km apart. Find the number of hours Wilbur drove.
- A) 4 hours      B) 2 hours  
C) 3 hours      D) 5 hours
- 4) Gabriella left the airport and traveled toward the ferry office. Two hours later Mike left traveling 25 km/h faster in an effort to catch up to her. After four hours Mike finally caught up. What was Gabriella's average speed?
- A) 85 km/h      B) 27 km/h  
C) 40 km/h      D) 50 km/h

- 5) A submarine left Port 56 traveling north four hours before an aircraft carrier. The aircraft carrier traveled in the opposite direction going 0 km/h slower than the submarine for eight hours after which time the ships were 200 km apart. Find the submarine's speed.
- A) 13 km/h      B) 14 km/h  
C) 17 km/h      D) 10 km/h
- 6) An Air Force plane left Tokyo and flew west at an average speed of 178 km/h. A cargo plane left some time later flying in the same direction at an average speed of 445 km/h. After flying for two hours the cargo plane caught up with the Air Force plane. Find the number of hours the Air Force plane flew before the cargo plane caught up.
- A) 9 hours      B) 4 hours  
C) 5 hours      D) 7 hours

**Solve each question. Round your answer to the nearest hundredth.**

- 7) It takes Nicole 16 hours to tar a roof. Scott can tar the same roof in 12 hours. If they worked together how long would it take them?
- A) 6.86 hours      B) 5.45 hours  
C) 8.05 hours      D) 5.31 hours
- 8) Jose can harvest a field in 13 hours. Eduardo can harvest the same field in 15 hours. How long would it take them if they worked together?
- A) 8.48 hours      B) 6.55 hours  
C) 6.96 hours      D) 5.5 hours
- 9) Working alone, it takes Shanice nine hours to clean an attic. Kristin can clean the same attic in ten hours. Find how long it would take them if they worked together.
- A) 4.85 hours      B) 5.21 hours  
C) 5.81 hours      D) 4.74 hours
- 10) Working alone, it takes DeShawn eight hours to paint a fence. Shreya can paint the same fence in ten hours. If they worked together how long would it take them?
- A) 4.44 hours      B) 3.84 hours  
C) 3.54 hours      D) 5.77 hours

11) It takes Perry eight hours to harvest a field. Micaela can harvest the same field in nine hours. How long would it take them if they worked together?

- A) 4.33 hours      B) 3.73 hours  
C) 3.56 hours      D) 4.24 hours

12) Carlos can pick forty bushels of apples in 13 hours. Joe can pick the same amount in 8 hours. Find how long it would take them if they worked together.

- A) 3.51 hours      B) 5.23 hours  
C) 4.95 hours      D) 4.12 hours

## Answers to Word Problem Review for 27 Week Test

1) B  
5) D  
9) D

2) C  
6) C  
10) A

3) A  
7) A  
11) D

4) D  
8) C  
12) C