

Word Problem Exam Practice

- 1) Find the value of two numbers if their sum is 25 and their difference is 1.
- 2) The difference of two numbers is 7. Their sum is 21. What are the numbers?
- 3) Ted and Shanice are selling cookie dough for a school fundraiser. Customers can buy packages of chocolate chip cookie dough and packages of double chocolate cookie dough. Ted sold 13 packages of chocolate chip cookie dough and 14 packages of double chocolate cookie dough for a total of \$370. Shanice sold 9 packages of chocolate chip cookie dough and 14 packages of double chocolate cookie dough for a total of \$338. Find the cost each of one package of chocolate chip cookie dough and one package of double chocolate cookie dough.
- 4) Kayla's school is selling tickets to the annual talent show. On the first day of ticket sales the school sold 9 senior citizen tickets and 6 student tickets for a total of \$114. The school took in \$124 on the second day by selling 10 senior citizen tickets and 6 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 5) The senior classes at High School A and High School B planned separate trips to the county fair. The senior class at High School A rented and filled 4 vans and 13 buses with 389 students. High School B rented and filled 2 vans and 13 buses with 357 students. Every van had the same number of students in it as did the buses. Find the number of students in each van and in each bus.
- 6) Emily's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 6 senior citizen tickets and 5 student tickets for a total of \$119. The school took in \$191 on the second day by selling 14 senior citizen tickets and 5 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.
- 7) Jessica and DeShawn are selling cookie dough for a school fundraiser. Customers can buy packages of sugar cookie dough and packages of oatmeal cookie dough. Jessica sold 14 packages of sugar cookie dough and 3 packages of oatmeal cookie dough for a total of \$102. DeShawn sold 1 package of sugar cookie dough and 13 packages of oatmeal cookie dough for a total of \$84. Find the cost each of one package of sugar cookie dough and one package of oatmeal cookie dough.
- 8) James and Dan are selling cheesecakes for a school fundraiser. Customers can buy pecan cheesecakes and apple cheesecakes. James sold 6 pecan cheesecakes and 13 apple cheesecakes for a total of \$127. Dan sold 12 pecan cheesecakes and 12 apple cheesecakes for a total of \$156. What is the cost each of one pecan cheesecake and one apple cheesecake?

- 9) Sarawong and Krystal are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and bags of daffodil bulbs. Sarawong sold 1 package of tulips bulbs and 12 bags of daffodil bulbs for a total of \$227. Krystal sold 5 packages of tulip bulbs and 14 bags of daffodil bulbs for a total of \$307. What is the cost each of one package of tulips bulbs and one bag of daffodil bulbs?
- 10) Shayna and John are selling cheesecakes for a school fundraiser. Customers can buy pecan cheesecakes and chocolate marble cheesecakes. Shayna sold 7 pecan cheesecakes and 10 chocolate marble cheesecakes for a total of \$129. John sold 3 pecan cheesecakes and 2 chocolate marble cheesecakes for a total of \$37. Find the cost each of one pecan cheesecake and one chocolate marble cheesecake.
- 11) Imani traveled to the recycling plant and back. It took one hour longer to go there than it did to come back. The average speed on the trip there was 64 mph. The average speed on the way back was 80 mph. How many hours did the trip there take?
- 12) Lisa drove to the train station and back. It took two hours less time to get there than it did to get back. The average speed on the trip there was 75 mph. The average speed on the way back was 50 mph. How many hours did the trip there take?
- 13) Kathryn drove to the ferry office and back. It took one hour less time to get there than it did to get back. The average speed on the trip there was 32 mph. The average speed on the way back was 24 mph. How many hours did the trip there take?
- 14) A cattle train traveled to Johannesburg and back. It took 13 hours longer to go there than it did to come back. The average speed on the trip there was 20 mph. The average speed on the way back was 85 mph. How many hours did the trip there take?
- 15) A cattle train left Abuja and traveled south at an average speed of 84 km/h. A diesel train left one hour later and traveled in the same direction but with an average speed of 90 km/h. How long did the cattle train travel before the diesel train caught up?
- 16) A jet left Singapore and flew toward the airshow at an average speed of 160 mph. An Air Force plane left one hour later and flew in the same direction but with an average speed of 200 mph. How long did the jet fly before the Air Force plane caught up?
- 17) A passenger plane flew to the maintenance facility and back. The trip there took nine hours and the trip back took ten hours. It averaged 20 km/h faster on the trip there than on the return trip. Find the passenger plane's average speed on the outbound trip.
- 18) An Air Force plane flew to Moscow and back. The trip there took nine hours and the trip back took four hours. It averaged 210 mph faster on the return trip than on the outbound trip. Find the Air Force plane's average speed on the outbound trip.
- 19) Shawna drove to the ferry office and back. The trip there took five hours and the trip back took three hours. She averaged 20 km/h faster on the return trip than on the outbound trip. What was Shawna's average speed on the outbound trip?
- 20) Jacob drove to his friend's house and back. The trip there took six hours and the trip back took five hours. He averaged 10 mph faster on the return trip than on the outbound trip. Find Jacob's average speed on the outbound trip.

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

- 21) Working alone, Shanice can pick forty bushels of apples in 13 hours. Kim can pick the same amount in 15 hours. Find how long it would take them if they worked together.
- 22) Jenny can clean an attic in 14 hours. Jessica can clean the same attic in 13 hours. How long would it take them if they worked together?
- 23) It takes Kristin ten hours to harvest a field. Danielle can harvest the same field in 12 hours. Find how long it would take them if they worked together.
- 24) Working alone, it takes Jill 11 hours to clean an attic. Ashley can clean the same attic in 14 hours. How long would it take them if they worked together?

Answers to Word Problem Exam Practice

- 1) 12 and 13
- 2) 7 and 14
- 3) package of chocolate chip cookie dough: \$8, package of double chocolate cookie dough: \$19
- 4) senior citizen ticket: \$10, student ticket: \$4
- 5) Van: 16, Bus: 25
- 6) senior citizen ticket: \$9, student ticket: \$13
- 7) package of sugar cookie dough: \$6, package of oatmeal cookie dough: \$6
- 8) pecan cheesecake: \$6, apple cheesecake: \$7
- 9) package of tulips bulbs: \$11, bag of daffodil bulbs: \$18
- 10) pecan cheesecake: \$7, chocolate marble cheesecake: \$8
- 11) 5 hours
- 12) 4 hours
- 13) 3 hours
- 14) 17 hours
- 15) 15 hours
- 16) 5 hours
- 17) 200 km/h
- 18) 168 mph
- 19) 30 km/h
- 20) 50 mph
- 21) 6.96 hours
- 22) 6.74 hours
- 23) 5.45 hours
- 24) 6.16 hours