

Word Problems 2

Discussion questions

1. On day 1, Juanita receives 1 dollar. On each following day, she receives 1 dollar more than the total received in all previous days. On which day will she first receive an amount greater than one hundred dollars?
2. A snail climbs all the way up a pole 12m high. It climbs 3m during the day but slides down 2m at night. How long will it take the snail to reach the top of the pole?
3. In the high school auditorium, the number of rows of seats doubles the number of seats in each row. If every row is identical and there are 1352 seats in total, how many rows are there?

4. François is playing on a ladder. He starts out on the middle step. He then goes up 5 steps, down 10, up another 7 and up 9 more steps to the top. How many steps are there on the ladder?

5. How many ways are there to rearrange the letters in the word *aardvark*?

6. Isabelle has in her hand some pennies, nickels and dimes totaling 80 cents. If she has 15 coins and as many pennies as nickels, how many dimes does she have?

Practice questions

1. A farmer plants trees in rows in a rectangular field. If each row has three times as many trees as there are rows and if there are 972 trees in the field, how many trees are there in each row?

2. Four kids play a double knockout chess tournament. In such a tournament, a kid is eliminated after two losses. What is the minimum number of games needed to determine a winner?

3. A reservoir has 3 sources of water. Source A can fill the reservoir in 2 days, source B in 3 days and source C in 6 days. How long would it take to fill the reservoir using all 3 sources?

4. A store increased and then decreased the price of the penguin backpack by the same percentage n . The final resulting price is 84% of the original price. What is n ?