Worksheet

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Problem quickname: 3894

<u>1)</u>

a) In the mobile tariff of Mrs. Wells you can talk ten minutes for 90 Cent. How long can Mrs. Wells talk for 99 Cent? Answer: Mrs. Wells can talk eleven minutes. One minute costs 9 Cent.

b) In Rincon Street, two identical houses stand side by side. The roof of the left house is covered by 13 roofers in six hours. How long need three roofers for the right house? Answer: They need 26 hours. A roofer alone would need 78 hours.

c) The caretaker of the vocational school of Kirklees must remove graffiti from the walls of the school every year. The cleaning of 793 square meters of wall costs 34099 Euro. Mr. Watkins from the school in Parlin has to have 984 square meters cleaned. How much does he pay? Answer: Mr. Watkins pays 43 Euro per square meter, in total this is 42312 Euro.

d) Construction company Armstrong must mark a section of highway. The manager Mrs. Richardson thinks about how many marking machines she should use. Last year, the marking of an equally large section of highway with five machines took 30 days. This year Mrs. Richardson has 15 machines available. How long will the work take? Answer: It will take ten days. A single machine would take 150 days.

<u>2)</u>

a) In the mobile tariff of Mr. Torres you can talk 20 minutes for 2 Euro. How long can Mr. Torres talk for 2.60 Euro? Answer: Mr. Torres can talk 26 minutes. One minute costs 10 Cent.

b) The supercomputer of the secret service in Lindhurst has 86 simultaneously working processors and can decode a secret message in 2 min 31 s. The agency for confidential messages in Isington has a computer with 43 processors. How long does it take there to decrypt the message? Answer: It takes 5 min 2 s. A single processor would need 3 h 36 min 26 s.

c) Julien and Mario earn money during the holidays by picking strawberries. Julien has earned 559 Euro with 43 hours of work. How much money did Mario earn with 30 hours of work in the field? Answer: Mario has earned 390 Euro. One hour of work pays 13 Euro.

d) Construction company Rodriguez must mark a section of highway. The manager Mrs. Delgado thinks about how many marking machines she should use. Last

year, the marking of an equally large section of highway with nine machines took 17 days. This year Mrs. Delgado has 17 machines available. How long will the work take? Answer: It will take nine days. A single machine would take 153 days.

3)

a) Anaya and Boone attend the same kindergarten. Anaya eats lunch there on three days in the week, whereas Boone eats on six days. For a week, Anaya pays 10.20 Euro. How much does Boone pay? Answer: Boone pays 20.40 Euro, which is 3.40 Euro a day.

b) To print 968 pages with construction drawings a printer takes 4 h 34 min 16 s. How long does the printer need for 967 pages? Answer: It takes 4 h 33 min 59 s - the printer needs 17 s to print a page.

c) Mrs. Lynch buys apples at the supermarket. 75 apples cost 9 Euro. How much are six apples? Answer: The answer is 72 Cent. An apple costs 12 Cent.

d) Parker and Oaklyn earn money during the holidays by picking strawberries. Parker has earned 648 Euro with 72 hours of work. How much money did Oaklyn earn with 91 hours of work in the field? Answer: Oaklyn has earned 819 Euro. One hour of work pays nine Euro.

4)

a) Every morning the school children have to hurry to get to class on time. It takes Violet 27 s to run from the train station to school. She runs six km/h on average. Isabela runs three km/h faster on average. How long does it take her? Answer: Isabela needs 18 s, with an average speed of nine km/h.

b) The residents of Vienna Street borrow a scarifier together to care for the lawn in order to save money. This year ten residents participate and pay 8.20 Euro each. Last year there were 25 residents. How much did everyone pay back then? Answer: It was 3.28 Euro. The rent for the scarifier is 82 Euro.

c) The supercomputer of the secret service in Grunsagill has 121 simultaneously working processors and can decode a secret message in 5 min 19 s. The agency for confidential messages in Rossiter has a computer with eleven processors. How long does it take there to decrypt the message? Answer: It takes 58 min 29 s. A single processor would need 10 h 43 min 19 s.

Good Luck!