

Name: Class:

Percent of numbers: word problems



- a. Everyday 80% of the 50 pupils in Paul's class bring their lunch from home. How many pupils always bring their lunch from home?
- b. 70% of the 10 people that showed up for the interview were women. How many Women showed up for the interview?
- c. Leo wrote a very difficult test today at college. Out of the 30 questions in the test, he only answered 40% correctly. How many problems did Leo answer correctly?
- d. There are 20 students in a class. 80% of these students passed their chemistry test. What number of these students passed their test?



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- a. Everyday 80% of the 50 pupils in Paul's class bring their lunch from home. How many pupils always bring their lunch from home?

Use proportions to solve percent problems.

Pupils that bring lunch is unknown = ?
Overall number of students in class = 50

Therefore, $80 \times 50 = 100 \times ? \rightarrow ? = \frac{80 \times 50}{100} = 40$

So, 40 pupils bring their lunch from home.

- b. 70% of the 10 people that showed up for the interview were women. How many Women showed up for the interview?

Use proportions to solve percent problems.

The percent = 70% = 70/100.

Number of people = 10.

Therefore, 70% of 10 = $\frac{70 \times 10}{100} = 7$

So, 7 women showed up for the interview

- c. Leo wrote a very difficult test today at college. Out of the 30 questions in the test, he only answered 40% correctly. How many problems did Leo answer correctly?

Percent = 40% = 40/100.

Total number of problems = 30.

Therefore, 40% of 30 = $\frac{40 \times 30}{100} = 12$

So, Leo answered 12 questions correctly.

- d. There are 20 students in a class. 80% of these students passed their chemistry test. What number of these students passed their test?

Percent = 80% = 80/100

Total number of students = 20

Therefore, 80% of 20 = $\frac{80 \times 20}{100} = 16$

So, 16 students passed their test.

