



Englische Übungen zu „Direkte und indirekte Proportionalität“

1. A train travels 40 km in 120 min.
If the train continues at the same speed, how long will it take it to travel 55 km?
2. A car travels 280 km on 35 l of petrol. How much petrol is needed for a journey of 440 km?
3. A meal for 4 people needs 500 g of potatoes.
 - a. What weight of potatoes is needed for 7 people?
 - b. How many people could eat this meal if it were made with 1 250 g potatoes?
4. Find the cost of two cakes if seven cakes cost € 10.50.
5. A machine fills 1 000 bottles in 5 min. How many bottles does it fill in 2 min?
6. A computer printer prints 12 pages in 2 min. How many pages will it print in 5 min?
7. It takes 4 men 10 hours to build a wall. How many men are needed to build a wall twice as big in 10 hours?
8. Alan swam 200 m in 2 min 5 s. What was his speed in metres per second?
9. Sound travels at approximately 330 m/s.
 - a. How far away is the thunderstorm if you count 6.5 s between seeing the lightning and hearing the thunder?
 - b. If it takes 3.4 s to hear an echo, how far away is the cliff?
10. Pam made a deal with her mother. If Pam could mow the lawn in 1 hour or less, she would get paid double. In 45 min, she had mowed $\frac{7}{10}$ of the lawn. If she continues to mow at the same rate, will she finish mowing the lawn in time to be paid double?
11. Change this cake recipe for 4 people to a recipe for 9 people.

a. 320 g mixed fruit	e. 200 ml milk
b. 380 g flour	f. 4 eggs
c. 80 g butter	g. 140 g sugar
d. 40 g yeast	





Vocabulary

Englisch	Deutsch
to travel	fahren
speed	Geschwindigkeit
petrol	Benzin
journey	Reise
weight	Gewicht
velocity	Geschwindigkeit
space	Raum, Weg
time	Zeit
yeast	Germ, Hefe





Solutions

1. It will take 165 min to travel 55 km.
2. There are 55 l of petrol needed for a journey of 440 km.
3. A meal for 4 people needs 500 g of potatoes.
 - a. There are 875 g of potatoes needed for 7 people.
 - b. There are enough potatoes for 10 people.
4. Two cakes cost € 3.
5. The machine fills 400 bottles in 2 min.
6. The computer printer will print 30 pages in 5 min.
7. 8 men are needed to build this wall.
8. His speed was 1.6 m/s.
9. Sound travels at approximately 330 m/s.
 - a. The thunderstorm is 2 145 m away.
 - b. The cliff is 561 m away.
10. No, because she will need more than 64 min (64,2...).
11. Change this cake recipe for 4 people to a recipe for 9 people.

a. 720 g	c. 180 g butter	f. 9 eggs
mixed fruit	d. 90 g yeast	g. 315 g sugar
b. 855 g flour	e. 450 ml milk	

