



Englische Übungen zu Prozentrechnung

- Convert these percentages to fractions. Simplify if possible.
 - $80\% =$
 - $3\% =$
 - $25\% =$
 - $96\% =$
 - $10\% =$
 - $20\% =$
 - $15\% =$
- Convert the fractions and decimals to percentages and order the percentages, smallest first.
 - $\frac{3}{4}, \frac{3}{5}, 0.7$
 - $\frac{1}{5}, 0.15, \frac{1}{20}$
 - $\frac{7}{20}, 0.3, \frac{9}{25}$
 - $\frac{12}{16}, 0.75, \frac{4}{5}$
- Convert the fractions to percentages. For these fractions you should know the decimal equivalent.
 - $\frac{1}{4}$
 - $\frac{7}{10}$
 - $\frac{1}{2}$
 - $\frac{7}{100}$
 - $\frac{3}{4}$
 - $\frac{1}{20}$
 - $\frac{2}{25}$
- Complete the table.

	a)	b)	c)
percentage			45 %
fraction	$\frac{4}{5}$		
decimal		0.6	
- A school has 880 pupils. 15 % of them take their bikes to school, 55 % go by bus and the rest walks.
 - How many children take their bikes?
 - How many children walk to school?





6. A clothing store is having a sale. All the clothes are reduced by 20 %. What is the sales price of a jacket that normally costs...
- a. ... € 80 ?
 - b. ... € 24 ?
7. A bookshop had a sale. All books were reduced by 15 %. Alex bought an atlas for € 21.25. How much would it have been before the sale?
8. 30 % of a cake is left. This weighs 240 g. How much did the whole cake weigh?
9. What percentage could be used in each sentence?
- a. **One quarter** of the pupils at a school eat their lunch at home.
 - b. **Four out of five** workers voted for a strike.
 - c. Kathe got **18 out of 20** in the spelling quiz.
 - d. **One of ten** mothers thinks children are too tidy at home.

Vocabulary

Englisch	Deutsch
percentage	Prozentsatz
fraction	Bruch
to simplify	kürzen
to convert	umformen
equivalent	Gleichwert
pupils	Schüler
to walk	zu Fuß gehen
to be reduced	verbilligt sein





Solutions

1.

a. $80\% = \frac{4}{5}$

b. $3\% = \frac{3}{100}$

c. $25\% = \frac{1}{4}$

d. $96\% = \frac{24}{25}$

e. $10\% = \frac{1}{10}$

f. $20\% = \frac{1}{5}$

g. $15\% = \frac{3}{20}$

2.

a. 60%, 70%, 75%

b. 5%, 15%, 20%

c. 30%, 35%, 36%

d. 75%, 75%, 80%

3.

a. $\frac{1}{4} = 25\% = 0.25$

b. $\frac{7}{10} = 70\% = 0.7$

c. $\frac{1}{2} = 50\% = 0.5$

d. $\frac{7}{100} = 7\% = 0.07$

e. $\frac{3}{4} = 75\% = 0.75$

f. $\frac{1}{20} = 5\% = 0.05$

g. $\frac{2}{25} = 8\% = 0.08$

4.

	a)	b)	c)
percentage	80%	60%	45%
fraction	4/5	3/5	9/20
decimal	0.8	0.6	0.45

5.

a. 132 children go by bike.

b. 264 children walk to school.

6.

a. The sale price of the jacket is € 64.

b. The sale price of the jacket is € 19.20.

7. The atlas was € 25 before the sale.

8. The whole cake did weigh 800 grams.

9.

a. 25%

b. 80%

c. 90%

d. 10%

