



Englische Übungen zu Bruchzahlen und Bruchrechnen

1. Calculate in your head.

a. $\frac{2}{3}$ of 60 min =

b. $\frac{7}{10}$ of 40 cm² =

c. $2\frac{1}{2}$ of 6 kg =

d. $1\frac{3}{4}$ of 1000 m =

2. Write down three fractions that equal 1.5.

3. Convert these decimals to fractions. At first into a fraction with a denominator of 10 or 100. Then simplify them if possible.

a. 1.75 =

b. 2.05 =

c. 0.8 =

d. 3.25 =

4. I am equivalent to $\frac{1}{2}$. The sum of my numerator and denominator is 15.
What fraction am I?

5. Put these numbers in order, smallest first. $\frac{3}{4}, \frac{5}{6}, \frac{1}{2}, \frac{2}{3}, 0.7$

6. The fraction $\frac{38}{5}$ lies between the natural numbers ____ and _____. Circle the right answer.

3 and 4 6 and 7 7 and 8 9 and 10





7. Find the results.

a. $\frac{3}{4} - \frac{1}{2} - \frac{1}{6} + \frac{5}{12} =$

b. $\frac{3}{4} - \left(\frac{1}{2} - \frac{1}{6}\right) + \frac{5}{12} =$

8.

a. Multiply the fraction $\frac{3}{5}$ by 10 and simplify.

b. Expand the fraction $\frac{3}{5}$ by 10.

9. Use mental arithmetic.

a. Alison solved $\frac{9}{10}$ of the multiple-choice questions correctly. If there were 50 multiple-choice questions, how many would she get right?

b. A Jupiter day is about $\frac{3}{8}$ of an Earth day. How many Earth hours are there in a Jupiter day?

10. 1 kg of tomatoes costs € 1.48. What does $1\frac{1}{2}$ kg of tomatoes cost?

11. Michael has 32 biscuits. He gives $\frac{3}{8}$ of the biscuits to his sister Jane. Generous Jane then gives $\frac{1}{4}$ of her share to a friend and eats the rest.

a. How many biscuits does Michael have left at the end?

b. How many biscuits does Jane eat?





Vocabulary

Englisch	Deutsch
calculate	berechnen
to equal	gleich sein
to convert	umwandeln
denominator	Nenner
to simplify a fraction	einen Bruch kürzen
to be equivalent	den gleichen Wert haben
numerator	Zähler
put in order	ordnen
to extend	erweitern
mental arithmetic	Kopfrechnen
about	ungefähr
share	Anteil, Teil





Solutions

1.

- a. 40 min
- b. 28 cm^2
- c. 15 kg
- d. 1750 m

2. $\frac{15}{10}, \frac{3}{2}, \frac{9}{6}$

3.

- a. $\frac{175}{100} = \frac{7}{4} = 1\frac{3}{4}$
- b. $\frac{205}{100} = \frac{41}{20} = 2\frac{1}{20}$
- c. $\frac{8}{10} = \frac{4}{5}$
- d. $\frac{325}{100} = \frac{13}{4} = 3\frac{1}{4}$

4. I am $\frac{5}{10}$.

5. $\frac{1}{2}, \frac{2}{3}, 0.7, \frac{3}{4}, \frac{5}{6}$

6. $\frac{38}{5}$ lies between 7 and 8.

7.

- a. $\frac{1}{2}$
- b. $\frac{5}{6}$

8.

- a. 6
- b. $30/50$

9.

- a. Alison would get 45 correct answers.
- b. There are 9 hours in a Jupiter day.

10. 1 $\frac{1}{2}$ kg of tomatoes costs 2.22 €.

11.

- a. At the end Michael has 20 biscuits left.
- b. Jane eats 9 biscuits.

