



Grade 8

Mathematics

Operations with Decimals

Question 1: Mixed operations with decimals

1. $23,45 + 8,66$

$$\begin{array}{r} 23,45 \\ + 8,66 \\ \hline 32,11 \end{array}$$

2. $35,76 - 27,83$

$$\begin{array}{r} 35,76 \\ - 27,83 \\ \hline 7,93 \end{array}$$

3. $41,5 \times 2,3$

$$\begin{array}{r} 41,5 \\ \times 2,3 \\ \hline 1245 \\ + 8300 \\ \hline 95,45 \end{array}$$

4. $4,17 \times 6,7$

$$\begin{array}{r} 4,17 \\ \times 6,7 \\ \hline 2919 \\ + 25020 \\ \hline 27,939 \end{array}$$

4. $83,57 + 155,7$

$$\begin{array}{r} 83,57 \\ + 155,7 \\ \hline 239,27 \end{array}$$

5. $61,8 - 53,75$

$$\begin{array}{r} 61,80 \\ - 53,75 \\ \hline 8,05 \end{array}$$

6. $56,5 \times 0,7$

$$\begin{array}{r} 56,5 \\ \times 0,7 \\ \hline 3955 \\ + 0000 \\ \hline 39,55 \end{array}$$

unnecessary row (can be left out)

7. $3,66 \times 7$

$$\begin{array}{r} 3,66 \\ \times 7 \\ \hline 25,62 \end{array}$$

8. $263 + 64,267$

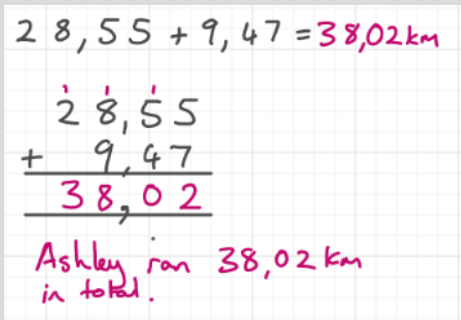
$$\begin{array}{r} 263 \\ + 64,267 \\ \hline 327,267 \end{array}$$

9. $5,336 - 0,099$

$$\begin{array}{r} 5,336 \\ - 0,099 \\ \hline 5,237 \end{array}$$

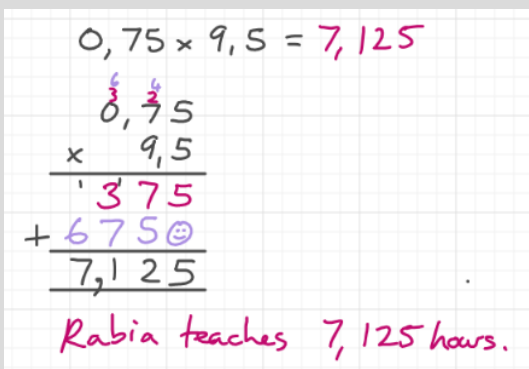
Question 2: Words problems - mixed decimal operations

1. Ashley runs on Saturday and Sunday. She runs 28,55km on Saturday and does a shorter 9,47km recovery run on Sunday. How far did she run in total?

$$28,55 + 9,47 = 38,02 \text{ km}$$


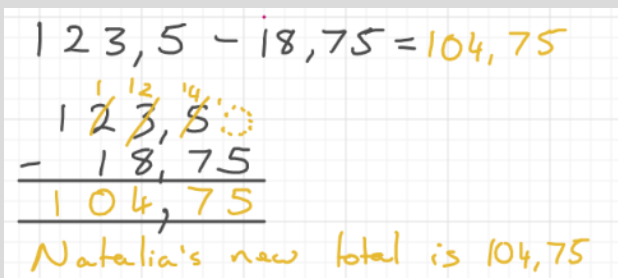
Ashley ran 38,02 km in total.

2. Rabia is a learning support teacher. She does 45minute lessons (which is 0,75 of an hour). If she does 9,5 lessons in a week (one is a half length lesson), how many hours does she spend teaching?

$$0,75 \times 9,5 = 7,125$$


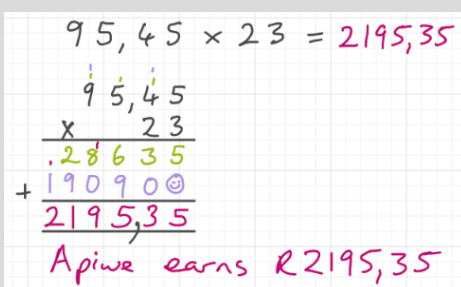
Rabia teaches 7,125 hours.

3. In Ms Hyland's class, there is an interesting behaviour management system. At the start of a term each child starts with 100 points but loses or gains points based on behaviour. If they reach zero, it's detention. If they get to 200, it's a civvies day. Natalia is on 123,5 points but forgot to do her homework and has lost 18,75 points. What is her new total?

$$123,5 - 18,75 = 104,75$$


Natalia's new total is 104,75

4. Apiwe is a substitute teacher. He is paid R95,45per hour. If he works a total of 23 hours in a week, how much does he earn? (The figures in this are completely fictitious – matched to the level that a grade 8 is expected to deal with in Maths!)

$$95,45 \times 23 = 2195,35$$


Apiwe earns R2195,35

5. Christie-Lee plays violin. She practices on Mondays for 0,75 hours; on Tuesdays for 1,33 hours; and on Thursdays for 1,5 hours. How many hours does she practice for weekly?

$$0,75 + 1,33 + 1,5 = 3,58$$

$$\begin{array}{r} 0,75 \\ 1,33 \\ + 1,5 \\ \hline 3,58 \end{array}$$

Christie-lee practices 3,58 hours a week.