

Measurement

Conversions in the metric system

The metric system

In South Africa, we use the metric system for measurement. In the metric system, all units are multiples of 10 of each other.

Convert units of measurement from memory

Converting units of length:

The following diagram shows how to easily convert between the most often-used units:



Example:

Convert the following:

- 1 (a) 3 km to m (b) 3,5 km to m (c) 3,65 m to cm (d) 25,8 km to mm
2 (a) 2 000 m to km (b) 1 560 m to km (c) 3 489 cm to m (d) 230 mm to cm

Solutions:

- 1 (a) km to m: $\times 1\,000$. Therefore: $3\text{ km} \times 1\,000 = 3\,000\text{ m}$
(If there are 1 000 m in 1 km, then there must be 3 000 m in 3 km.)
(b) km to m: $\times 1\,000$. Therefore: $3,5\text{ km} \times 1\,000 = 3\,500\text{ m}$
(3,5 km is just a little larger than 3 km, so there must be a little more than 3 000 m in the answer.)
(c) m to cm: $\times 100$. Therefore: $3,65\text{ m} \times 100 = 365\text{ cm}$
(d) km to m: $\times 1\,000$ and m to mm: $\times 1\,000$.
Therefore km to m: $\times 1\,000 \times 1\,000 = \times 1\,000\,000$
Therefore $25,8\text{ km} \times 1\,000\,000 = 25\,800\,000\text{ mm}$
- 2 (a) m to km: $\div 1\,000$. Therefore: $2\,000\text{ m} \div 1\,000 = 2\text{ km}$
(Remember the rule "Divide Up". This means that when going to a larger unit ("Up") you should divide.)
(b) m to km: $\div 1\,000$. Therefore: $1\,560\text{ m} \div 1\,000 = 1,56\text{ km}$

Mathematical Literacy Grade 10 Worksheet 6

Measurement

John Michels (Journalist)



Mathematical Literacy Grade 10 Worksheet 6 Measurement:

School District Instructional Computer-use Evaluation Manual Chris Morton, Don Beverly, 1989 *Engaging Teacher Candidates and Language Learners With Authentic Practice* Lenkaitis, Chesla Ann, Hilliker, Shannon M., 2019-06-28 Teacher candidates need authentic practice with language learners so that they can test and hone their skills based on the concepts learned in their teacher education programs with real students. These candidates need practice before and beyond student teaching and fieldwork. If they are given the chance to practice during as many teacher education courses as possible and have access to language learners throughout their programs, they can focus on applying the specific content of each class they take in a real world context with real students. *Engaging Teacher Candidates and Language Learners With Authentic Practice* highlights strategies teacher educators can use to give their teacher candidates authentic practice attached to coursework. By focusing on ways that authentic practice has been integrated into teacher preparation programs and studies that have been realized, this publication will provide practical ways for others to provide this authentic practice, which is much needed in teacher preparation programs. This book highlights topics such as pedagogy, student engagement, and intercultural competence and is ideal for educators, administrators, researchers, and students.

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