Name & Surname: _____ Class: _____ Date: _____

Measure and Convert

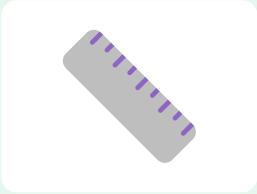
Small units, big units — switch with ease!

About 50 minutes Level ★★★☆☆

Units Fit Together

Units in the same **system** come in different sizes. To convert, **multiply** to go to a smaller unit and **divide** to go to a larger unit.

- **Length**: 1 km = 1,000 m, 1 m = 100 cm
- **Mass**: 1 kg = 1,000 g, 1 lb = 16 oz
- **Volume** and **time**: 1 l = 1,000 ml, 1 hr = 60 min, 1 min = 60 sec



Key words

kilometer: a long length, 1,000 meters

kilogram: a heavy mass, 1,000 grams

liter: a volume for liquids, 1,000 milliliters

centimeter: a small length, 100 make a meter

ounce: a light weight, 16 make a pound

minute: a time unit, 60 seconds

Task A

/13

Aim for 10 **points**. Answer the **quick** review questions.

1 point

What is 7 × **100**?

1 point

What is 45 × **10**?

1 point

What is 3,000 ÷ **1,000**?

2 points

What is $\frac{1}{2}$ of **60**?

2 points

What is 25 × **4**?

3 points

What is 6,000 ÷ **100**?

3 points

What is 9 × **60**?

My score: _____ out of 13 · Target: 8

Created with LessonDino.com · AI lesson planner with checkable sources

Long Lengths Together

Convert **length** units to solve problems.

Task B /10

Practice changing length units between km, m, and cm.

WARM UP

1 Convert 2 **kilometers** to **meters**.

Answer: _____

2 Convert 5 **meters** to **centimeters**.

Answer: _____

3 Convert 900 **centimeters** to **meters**.

Answer: _____

PRACTICE

4 Convert 2 **kilometers** 300 **meters** to **meters**.

Answer: _____

5 Convert 4 **meters** 60 **centimeters** to **centimeters**.

Answer: _____

6 Convert 1 **kilometer** to **centimeters**.

Answer: _____

7 Put in order from **shortest** to **longest**: 9 m, 950 cm, 1 km.

Answer: _____

PROBLEM SOLVING

8 A **trail** is 3 km long. A student has walked 1,200 m. How many **meters** are left?

Answer: _____

9 One **rope** is 250 cm long. Another **rope** is 3 m long. How much **longer** is the second rope in centimeters?

Answer: _____

10 Explain how you know whether to **multiply** or **divide** when changing 6 m to cm.

Answer: _____

Created with LessonDino.com · AI lesson planner with checkable sources

Mass Volume Time

Convert **mass**, **volume**, and **time** units.

Task C

/10

Practice changing **mass**, **volume**, and **time** units.

WARM UP

1 Convert 3 **kilograms** to **grams**.

Answer: _____

2 Convert 4,000 **grams** to **kilograms**.

Answer: _____

3 Convert 2 **liters** to **milliliters**.

Answer: _____

4 Convert 2 **pounds** to **ounces**.

Answer: _____

PRACTICE

5 Convert 1 **kilogram** 250 **grams** to **grams**.

Answer: _____

6 Convert 48 **ounces** to **pounds**.

Answer: _____

7 Convert 2 **hours** to **seconds**.

Answer: _____

PROBLEM SOLVING

8 A **jug** holds 1 l of water. A student pours out 300 ml. How many **milliliters** are left?

Answer: _____

9 A **movie** lasts 2 hr. A **show** lasts 90 min. How many more **minutes** is the movie?

Answer: _____

10 A **backpack** weighs 5 lb. A **bag** weighs 70 oz. Which is **heavier** and by how much? Explain how you know.

Answer: _____

Created with LessonDino.com · AI lesson planner with checkable sources

True or False?

Test **myths** and use **length** units.

Task D

Example done for you

/5

Tick **true** or **false** for each **conversion**.

Statement	True	False
1 **km** = 100 **m**.		✓
1 **m** = 100 **cm**.		
1 **kg** = 1,000 **g**.		
1 **lb** = 10 **oz**.		
1 **l** = 100 **ml**.		
To change **minutes** to **hours**, you multiply by 60.		

Task E

/5

Find **area** and **perimeter** in **centimeters**.

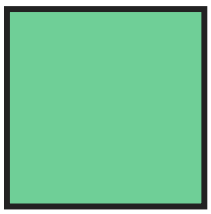
1



Area: _____ cm²

Perimeter: _____ cm

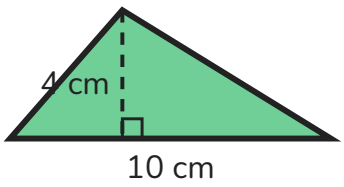
2



Area: _____ cm²

Perimeter: _____ cm

3



Area: _____ cm²

Created with LessonDino.com · AI lesson planner with checkable sources

Fix and Follow

Spot the **mistake** and copy the **method**.

Task F

/4

Find the wrong step and give the right answer.



Student A

Convert 2 **km** to **m**.

1. Step 1: 2 km to m
2. Step 2: = 2 × 100
3. Step 3: So the answer is 200 m

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____



Student B

Convert 3 **lb** to **oz**.

1. Step 1: 3 lb to oz
2. Step 2: = 3 × 10
3. Step 3: So the answer is 30 oz

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____

Created with LessonDino.com · AI lesson planner with checkable sources

Measure and Convert

Task G

/2

Study each example, then try the same method.

WORKED EXAMPLE

Work out 4 liters in milliliters.

1. 1 l = 1,000 ml
2. 4 × 1,000 = 4,000
3. So 4 l = 4,000 ml

Answer: 4000 ml

YOUR TURN

Work out 6 liters in milliliters.

Answer: _____

WORKED EXAMPLE

Work out 240 minutes in hours.

1. 60 min = 1 hr
2. 240 ÷ 60 = 4
3. So 240 min = 4 hr

Answer: 4 hr

YOUR TURN

Work out 180 minutes in hours.

Answer: _____

How did I do?

Circle a face for each line.

I can convert km, m, and cm.	☹	😐	☺
I can convert kg and g, lb and oz, and l and ml.	☹	😐	☺
I can convert hr, min, and sec.	☹	😐	☺

Created with LessonDino.com · AI lesson planner with checkable sources

Answer sheet: Measure and Convert

Task A

1. 700
2. 450
3. 3
4. 30
5. 100
6. 60
7. 540

Task B

1. 2000 m
2. 500 cm
3. 9 m
4. 2300 m
5. 460 cm
6. 100000 cm
7. 9 m, 950 cm, 1 km
8. 1800 m
9. 50 cm
10. Multiply because centimeters are smaller, so you need more of them. 6 m = 600 cm.

Task C

1. 3000 g
2. 4 kg
3. 2000 ml
4. 32 oz
5. 1250 g
6. 3 lb
7. 7200 sec
8. 700 ml
9. 30 min
10. The backpack is heavier by 10 oz because 5 lb = 80 oz.

Task D

1. False
2. True
3. True
4. False
5. False
6. False

Task E

1. area = 24 cm^2, perimeter = 20 cm
2. area = 25 cm^2, perimeter = 20 cm
3. area = 20 cm^2

Task F

1. Step 2 is wrong: They multiplied by 100, which is for meters to centimeters. There are 1,000 meters in a kilometer. Correct answer: 2000 m
2. Step 2 is wrong: They used 10, thinking in tens. There are 16 ounces in a pound. Correct answer: 48 oz

---

Task G

1. 6000 ml
2. 3 hr

Pictures: Microsoft Fluent Emoji (MIT); Characters: Open Peeps by Pablo Stanley (CC0)

Created with LessonDino.com · AI lesson planner with checkable sources