



WORKSHEET 27

Year 5 Mathematics — Australian Curriculum v9.0

Measurement: Length, Mass & Volume

Curriculum Code: AC9M5M01

Name: _____ Date: _____

Section 1: Fluency — Choosing Appropriate Units

Choose the most appropriate unit to measure each item.

1. What unit would you use to measure the length of a pencil?

Circle one: mm cm m km

2. What unit would you use to measure the distance between Sydney and Melbourne?

Circle one: mm cm m km

3. What unit would you use to measure the mass of a car?

Circle one: g kg t

4. What unit would you use to measure the capacity of a teaspoon?

Circle one: mL L kL



5. What unit would you use to measure the length of a football field?

Circle one: mm cm m km

6. What unit would you use to measure the mass of a bag of sugar?

Circle one: g kg t

7. What unit would you use to measure the capacity of a swimming pool?

Circle one: mL L kL

Unit Master!



Great work choosing the right units for measurement!

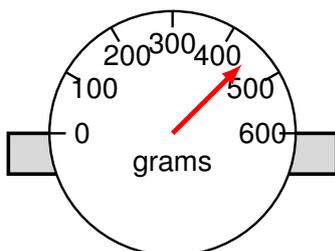


Joke: Why did the ruler go to school? To get a little more measured!

Section 2: Reasoning — Reading Scales & Converting Units

Read the scales and convert between units.

8. Look at the kitchen scale below. What mass is shown?





Answer: _____

9. Convert 3 kilograms to grams.



Answer: _____

10. Convert 250 centimetres to metres.

Answer: _____

11. Convert 5000 millilitres to litres.

Answer: _____

12. A rope is 4 metres long. How many centimetres is that?

Answer: _____



13. A bag of rice weighs 2500 grams. What is its mass in kilograms?

Answer: _____

14. A bottle holds 1.5 litres of water. How many millilitres is that?

Answer: _____

Conversion Champion!



You've mastered moving between units like a pro!

Joke: Why did the kilogram break up with the gram? It needed more space!

Section 3: Challenge — Expressing in Multiple Units & Problem Solving

Apply your measurement skills to solve these challenge problems.

15. A student is 155 centimetres tall. Express this height in metres and centimetres.

Answer: _____



16. A car travels 2.5 kilometres. How many metres is that?

Answer: _____

17. A jug holds 3 litres and 250 millilitres. Express this capacity in millilitres only.

Answer: _____

18. A truck weighs 3 tonnes and 500 kilograms. What is its total mass in kilograms?

Answer: _____

19. A ribbon is 85 millimetres long. Express this length in centimetres and millimetres.

Answer: _____

20. A recipe requires 0.75 litres of milk. How many millilitres is that?



Answer: _____

21. A box weighs 1 kilogram and 750 grams. Express this mass in grams only.

Answer: _____

22. A swimming pool contains 8500 litres of water. How many kilolitres is that?

Answer: _____

Measurement Master!



Outstanding! You can express measurements in multiple units with ease!

Joke: What did the metre say to the centimetre? You're just a fraction of me!

End of Worksheet 27

Well done! Check your answers on the next page.



WORKSHEET 27 — ANSWER KEY

Year 5 Mathematics — Measurement

AC9M5M01: Length, Mass & Volume

Section 1: Fluency — Choosing Appropriate Units

1. cm
2. km
3. t (tonnes)
4. mL
5. m
6. kg
7. kL

Section 2: Reasoning — Reading Scales & Converting Units

8. 450 g
9. 3000 g ($3 \text{ kg} \times 1000 = 3000 \text{ g}$)
10. 2.5 m ($250 \text{ cm} \div 100 = 2.5 \text{ m}$)
11. 5 L ($5000 \text{ mL} \div 1000 = 5 \text{ L}$)
12. 400 cm ($4 \text{ m} \times 100 = 400 \text{ cm}$)
13. 2.5 kg ($2500 \text{ g} \div 1000 = 2.5 \text{ kg}$)
14. 1500 mL ($1.5 \text{ L} \times 1000 = 1500 \text{ mL}$)



Section 3: Challenge — Expressing in Multiple Units & Problem Solving

15. 1 m and 55 cm ($155 \text{ cm} = 1 \text{ m} + 55 \text{ cm}$)
16. 2500 m ($2.5 \text{ km} \times 1000 = 2500 \text{ m}$)
17. 3250 mL ($3 \text{ L} = 3000 \text{ mL}$; $3000 \text{ mL} + 250 \text{ mL} = 3250 \text{ mL}$)
18. 3500 kg ($3 \text{ t} = 3000 \text{ kg}$; $3000 \text{ kg} + 500 \text{ kg} = 3500 \text{ kg}$)
19. 8 cm and 5 mm ($85 \text{ mm} = 8 \text{ cm} + 5 \text{ mm}$)
20. 750 mL ($0.75 \text{ L} \times 1000 = 750 \text{ mL}$)
21. 1750 g ($1 \text{ kg} = 1000 \text{ g}$; $1000 \text{ g} + 750 \text{ g} = 1750 \text{ g}$)
22. 8.5 kL ($8500 \text{ L} \div 1000 = 8.5 \text{ kL}$)



Great work on Worksheet 27!



WORKSHEET 28

Year 5 Mathematics — Australian Curriculum v9.0

Measurement: Capacity & Mass Problem Solving

Curriculum Code: AC9M5M01

Name: _____ Date: _____

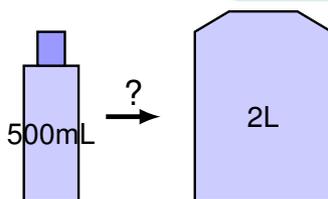
Section 1: Fluency — Capacity Estimations & Comparisons

Estimate and compare capacities and masses.

1. Which is larger: 250 mL or 2.5 L?

Answer: _____

2. How many 500 mL bottles do you need to fill a 2 litre jug?



Answer: _____

3. A milk carton holds 1 litre. How many millilitres is that?



Answer: _____

4. Which is heavier: 1500 grams or 1 kilogram?

Answer: _____

5. A water bottle holds 600 mL. How many litres is that?

Answer: _____

6. A bag of potatoes weighs 5 kg. How many grams is that?

Answer: _____

7. Which holds more: a 750 mL bottle or a 1 L bottle?

Answer: _____



Capacity Champion!



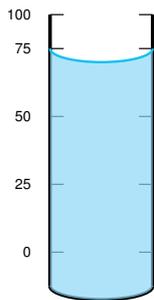
You're brilliant at comparing and estimating capacities!

Joke: Why did the litre go to school? To become a little more literate!

Section 2: Reasoning — Measuring & Calculating

Read measurements and solve problems.

8. A measuring cylinder shows 75 mL of water. How much more water is needed to reach 100 mL?



Answer: _____

9. A baker uses 1.5 kg of flour for a cake. How many grams is that?

Answer: _____

10. A fish tank holds 50 litres of water. How many millilitres is that?



Answer: _____

11. A parcel weighs 2 kg and 300 g. What is its total mass in grams?

Answer: _____

12. A petrol tank holds 45 litres. If 12 litres have been used, how many litres remain?

Answer: _____

13. A recipe calls for 250 mL of milk. You only have a 2 L carton. How many times can you make the recipe?

Answer: _____

14. A melon weighs 800 g. Express this mass in kilograms and grams.

Answer: _____



Measuring Marvellous!



You've solved measurement problems like a real mathematician!

Joke: What's a measuring cup's favorite subject? Maths, because it's full of solutions!

Section 3: Challenge — Real-World Applications

Apply your knowledge to solve real-world measurement problems.

15. A baker has 1.5 kg of flour. She uses 800 g to make bread. How much flour is left in grams?

Answer: _____

16. A swimming pool holds 500 litres of water. If the pool is losing 10 litres per hour due to evaporation, how much water will be left after 5 hours?

Answer: _____

17. A truck is carrying 3 crates. Each crate weighs 250 kg. What is the total mass in kilograms?

Answer: _____



18. A juice factory bottles 12,000 litres of juice. Each bottle holds 2 litres. How many bottles can they fill?

Answer: _____

19. A farmer has 4.5 tonnes of grain. He sells 1500 kg. How many kilograms of grain does he have left?
(Remember: 1 tonne = 1000 kg)

Answer: _____

20. A restaurant uses 3 litres and 500 mL of oil per day. How many millilitres do they use in one week (7 days)?

Answer: _____

21. A delivery van can carry a maximum of 2 tonnes. If it already has 1200 kg loaded, how many more kilograms can it carry?

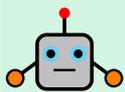
Answer: _____



22. A rain gauge collected 85 mm of rain in January and 120 mm in February. What was the total rainfall in millimetres?

Answer: _____

Real-World Genius!



Fantastic! You can apply measurement skills to solve practical problems!

Joke: Why did the measurement bring a ladder? To reach new heights!

End of Worksheet 28

Excellent work! Check your answers on the next page.



WORKSHEET 28 — ANSWER KEY

Year 5 Mathematics — Measurement

AC9M5M01: Capacity & Mass Problem Solving

Section 1: Fluency — Capacity Estimations & Comparisons

1. 2.5 L
2. 4 bottles ($2 \text{ L} \div 0.5 \text{ L} = 4$)
3. 1000 mL
4. 1500 grams
5. 0.6 L ($600 \text{ mL} \div 1000 = 0.6 \text{ L}$)
6. 5000 g
7. 1 L bottle

Section 2: Reasoning — Measuring & Calculating

8. 25 mL ($100 \text{ mL} - 75 \text{ mL} = 25 \text{ mL}$)
9. 1500 g ($1.5 \text{ kg} \times 1000 = 1500 \text{ g}$)
10. 50,000 mL ($50 \text{ L} \times 1000 = 50,000 \text{ mL}$)
11. 2300 g ($2000 \text{ g} + 300 \text{ g} = 2300 \text{ g}$)
12. 33 L ($45 \text{ L} - 12 \text{ L} = 33 \text{ L}$)
13. 8 times ($2000 \text{ mL} \div 250 \text{ mL} = 8$)
14. 0 kg and 800 g (or 0.8 kg)



Section 3: Challenge — Real-World Applications

15. 700 g ($1.5 \text{ kg} = 1500 \text{ g}$; $1500 \text{ g} - 800 \text{ g} = 700 \text{ g}$)
16. 450 L ($10 \text{ L} \times 5 \text{ hours} = 50 \text{ L lost}$; $500 \text{ L} - 50 \text{ L} = 450 \text{ L}$)
17. 750 kg ($250 \text{ kg} \times 3 = 750 \text{ kg}$)
18. 6000 bottles ($12,000 \text{ L} \div 2 \text{ L} = 6000$)
19. 3000 kg ($4.5 \text{ t} = 4500 \text{ kg}$; $4500 \text{ kg} - 1500 \text{ kg} = 3000 \text{ kg}$)
20. 24,500 mL ($3 \text{ L and } 500 \text{ mL} = 3500 \text{ mL}$; $3500 \text{ mL} \times 7 = 24,500 \text{ mL}$)
21. 800 kg ($2 \text{ t} = 2000 \text{ kg}$; $2000 \text{ kg} - 1200 \text{ kg} = 800 \text{ kg}$)
22. 205 mm ($85 \text{ mm} + 120 \text{ mm} = 205 \text{ mm}$)

Congratulations on completing Worksheet 28!

You've mastered measurement problem-solving!