Year 6 Worksheet 1 - Measurement

Question 1: Convert metric lengths

x1000   x100   x10

km   **m**   **cm**   **mm**

÷1000   ÷100   ÷10
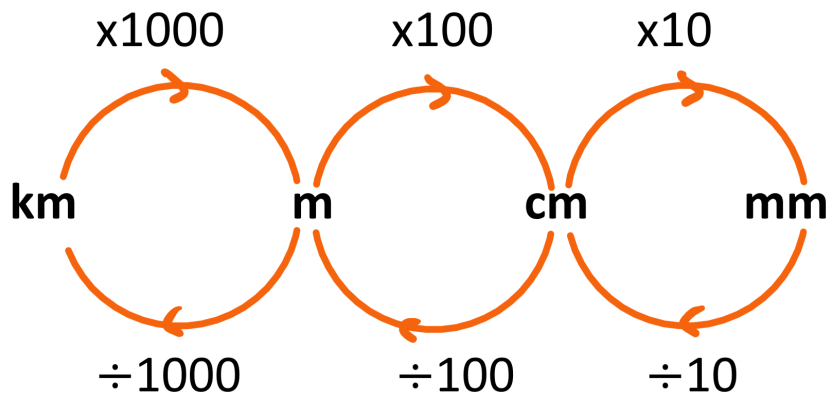
1	Convert 500 mm to cm.
2	How many centimeters are there in 2.5 m?
3	Convert 1.75 cm to mm.
4	Express 420 mm in meters.
5	Express 800 mm in meters.

6	If a length is 0.6 km, how many meters is that?
7	Convert 0.125 m to cm.
8	If a distance is 6 mm, how many centimeters is that?
9	How many kilometers is 28000 m?
10	Convert 3.7 m to cm.
11	What is 4500 cm in meters?
12	Convert 2.25 cm to mm.
13	Convert 1200 cm to meters.

14	If a length is 5 km, how many meters is that?
15	If a distance is 1.2 m, how many centimeters is that?
16	Express 17000 mm in kilometers.
17	Convert 1500 m to kilometers.
18	How many millimeters are in 2.8 cm?
19	Convert 0.35 km to meters.
20	What is 3.5 m in centimeters?

Question 2: Mix of Conversions (weight and volume).

- **1 kilograms (kg) = 1,000 grams (g)**
- **1 liters (L) = 1,000 milliliters (mL)**

1	Convert 750 mL to liters.
2	How many grams are there in 1.5 kg?
3	Convert 2.3 L to milliliters.
4	If an object weighs 320 g, how many kilograms is that?
5	Express 450 mL in liters.
6	Convert 0.6 kg to grams.
7	What is 1750 g in kilograms?

8	If a liquid fills 3.5 L, how many milliliters is that?
9	Convert 850 mL to liters.
10	How many grams are in 2.7 kg?
11	Convert 0.25 L to milliliters.
12	If a package weighs 1.2 kg, how many grams is that?
13	If an item weighs 0.75 kg, how many grams is that?
14	Express 680 mL in liters.
15	Convert 0.85 kg to grams.

16	What is 2150 g in kilograms?
17	If a container holds 4.3 L of water, how many milliliters is that?
18	Convert 980 mL to liters.
19	How many grams are in 3.8 kg?
20	Convert 0.18 L to milliliters.

Question 3: Answer the following.

|	
1	Mary walks 2.5 kilometers to the store and then 1.8 kilometers to the park. How far did she walk in total, in meters?
2	A bag of flour weighs 1.5 kg. If Lisa buys 3 bags of flour, how much total weight does she purchase in grams?
3	Mark walks 500 meters to the park and then walks another 2.5 kilometers to the store. How far did he walk in total, in meters?
4	A bag of rice weighs 2.5 kilograms. If Windy buys 4 bags of rice, how much total weight does she purchase in grams?

5	A container has a volume of 8.5 liters. If 2.5 liters of liquid are poured out, what volume remains in milliliters?
6	Mary fills a jug with 1.2 liters of juice. She then pours out 400 milliliters and drinks 0.3 liters. How much juice is left in milliliters?
7	A car travels at a speed of 80 km/h for 2.5 hours. How far does it travel in kilometers?
8	A recipe calls for 250 mL of milk and 150 g of flour. If you want to make 4 batches of the recipe, how much milk in L and flour in kg will you need?

9	A bottle of shampoo contains 500 mL. If you use 60 mL per wash and have used it 7 times, how many milliliters of shampoo are left?
10	A rectangular garden is 12 meters long and 9 meters wide. If the garden is surrounded by a fence that is 1.8 meters high, what is the total length of the fence required in meters?

10 diagram:

12 m

9 m   9 m

─── fence

─── garden

12 m

1.8 m
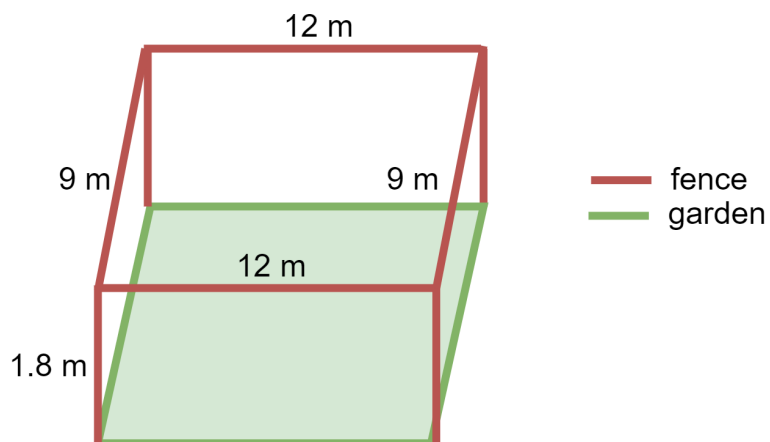
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Answer Key

Question 1: Convert metric lengths

1	Convert 500 mm to cm. Answer: 50 cm
2	How many centimeters are there in 2.5 m? Answer: 250 cm
3	Convert 1.75 cm to mm. Answer: 17.5 mm
4	Express 420 mm in meters. Answer: 0.42 m
5	Express 800 mm in meters. Answer: 0.8 m
6	If a length is 0.6 km, how many meters is that? Answer: 600 m
7	Convert 0.125 m to cm. Answer: 12.5 cm
8	If a distance is 6 mm, how many centimeters is that? Answer: 0.6 cm
9	How many kilometers is 28000 m? Answer: 28 km
10	Convert 3.7 m to cm. Answer: 370 cm
11	What is 4500 cm in meters? Answer: 45 m
12	Convert 2.25 cm to mm. Answer: 22.5 mm
13	Convert 1200 cm to meters. Answer: 12 m

14	If a length is 5 km, how many meters is that? Answer: 5000 m
15	If a distance is 1.2 m, how many centimeters is that? Answer: 120 cm
16	Express 17000 mm in kilometers. Answer: 0.017 km
17	Convert 1500 m to kilometers. Answer: 1.5 km
18	How many millimeters are in 2.8 cm? Answer: 28 mm
19	Convert 0.35 km to meters. Answer: 350 m
20	What is 3.5 m in centimeters? Answer: 350 cm

Question 2:

1	Convert 750 mL to liters. Answer: 0.75 L
2	How many grams are there in 1.5 kg? Answer: 1500 g
3	Convert 2.3 L to milliliters. Answer: 2300 mL
4	If an object weighs 320 g, how many kilograms is that? Answer: 0.32 kg
5	Express 450 mL in liters. Answer: 0.45 L
6	Convert 0.6 kg to grams. Answer: 600 g
7	What is 1750 g in kilograms?

	Answer: 1.75 kg
8	If a liquid fills 3.5 L, how many milliliters is that? Answer: 3500 mL
9	Convert 850 mL to liters. Answer: 0.85 L
10	How many grams are in 2.7 kg? Answer: 2700 g
11	Convert 0.25 L to milliliters. Answer: 250 mL
12	If a package weighs 1.2 kg, how many grams is that? Answer: 1200 g
13	If an item weighs 0.75 kg, how many grams is that? Answer: 750 g
14	Express 680 mL in liters. Answer: 0.68 L
15	Convert 0.85 kg to grams. Answer: 850 g
16	What is 2150 g in kilograms? Answer: 2.15 kg
17	If a container holds 4.3 L of water, how many milliliters is that? Answer: 4300 mL
18	Convert 980 mL to liters. Answer: 0.98 L
19	How many grams are in 3.8 kg? Answer: 3800 g
20	Convert 0.18 L to milliliters. Answer: 180 mL

Question 3: Answer the following.

1	Mary walks 2.5 kilometers to the store and then 1.8 kilometers to the park. How far did she walk in total, in meters? Answer: Total distance = (2.5 km + 1.8 km) × 1000 m/km = 4300 meters.
2	A bag of flour weighs 1.5 kg. If Lisa buys 3 bags of flour, how much total weight does she purchase in grams? Answer: Total weight = 1.5 kg/bag × 3 bags × 1000 g/kg = 4500 grams.
3	Mark walks 500 meters to the park and then walks another 2.5 kilometers to the store. How far did he walk in total, in meters? Answer: Total distance = 500 meters + (2.5 kilometers × 1000 meters/kilometer) = 3000 meters.
4	A bag of rice weighs 2.5 kilograms. If Lisa buys 4 bags of rice, how much total weight does she purchase in grams? Answer: Total weight = 2.5 kilograms × 1000 grams/kilogram × 4 bags = 10000 grams.
5	A container has a volume of 8.5 liters. If 2.5 liters of liquid are poured out, what volume remains in milliliters? Answer: Remaining volume = (8.5 liters - 2.5 liters) × 1000 milliliters/liter = 6000 milliliters.
6	Mary fills a jug with 1.2 liters of juice. She then pours out 400 milliliters and drinks 0.3 liters. How much juice is left in milliliters? Answer: Juice left = (Initial volume - Poured out volume - Drunk volume) × 1000 milliliters/liter Juice left = (1.2 liters - 0.4 liters - 0.3 liters) × 1000 milliliters/liter = 500 milliliters.

7	A car travels at a speed of 80 km/h for 2.5 hours. How far does it travel in kilometers? Answer: Distance = Speed × Time = 80 km/h × 2.5 h = 200 kilometers.
8	A recipe calls for 250 mL of milk and 150 g of flour. If you want to make 4 batches of the recipe, how much milk in L and flour in kg will you need? Answer: Total milk = 250 mL/batch × 4 batches = 1000 mL = 1L Total flour = 150 g/batch × 4 batches = 600 g = 0.6kg
9	A bottle of shampoo contains 500 mL. If you use 60 mL per wash and have used it 7 times, how many milliliters of shampoo are left? Answer: Shampoo used = 60 mL/wash × 7 washes = 420 mL Shampoo left = Initial volume - Shampoo used = 500 mL - 420 mL = 80 mL.
10	A rectangular garden is 12 meters long and 9 meters wide. If the garden is surrounded by a fence that is 1.8 meters high, what is the total length of the fence required in meters? Answer: Total length of fence = Perimeter of garden + Height of fence × 4 sides Total length of fence = (2 × 12 m + 2 × 9 m) + (4 × 1.8 m) = 49.2 meters.