

Metric System Test 3

1. Compare:

150 m + 240m \_\_\_ 1000 m

6,250cm + 20m \_\_\_ 1000 m

870cm+ 130m \_\_\_ 1km

1,700m + 250cm \_\_\_ 1 km

1km – 37520 cm \_\_\_ 4,900m

1km – 390cm \_\_\_ 1,710 m

2. Convert:

58m = \_\_\_\_\_ cm

12,800 cm = \_\_\_\_\_ m

1m 40 cm = \_\_\_\_\_ cm

23,412 cm = \_\_\_\_\_ m \_\_\_\_\_ cm

630m= \_\_\_\_\_ cm

36,300 cm = \_\_\_\_\_ m

37m 9cm 300mm= \_\_\_\_\_ cm

21,208cm = \_\_\_\_\_ m \_\_\_\_\_ cm

17,800 cm = \_\_\_\_\_ m

40m 16cm 50mm= \_\_\_\_\_ cm

690cm = \_\_\_\_\_ m \_\_\_\_\_ cm

3. How many millimeters:

154dm 3cm 2mm = \_\_\_\_\_

112dm 20cm 3mm = \_\_\_\_\_

18dm 7cm 3mm = \_\_\_\_\_

141m 52dm 3cm= \_\_\_\_\_

5m 0dm 3mm= \_\_\_\_\_

8m 4cm 1mm= \_\_\_\_\_ mm

80m 13mm= \_\_\_\_\_ mm

4. Convert:

1,800m = \_\_\_\_\_ dm

805m = \_\_\_\_\_ dm

60m 3dm = \_\_\_\_\_ dm

12m 3dm = \_\_\_\_\_ dm

102m 1dm = \_\_\_\_\_ dm

2,140 dm = \_\_\_\_\_ m

77 dm = \_\_\_\_\_ m

12,100 dm = \_\_\_\_\_ m

5. Fill in the blanks

5m = \_\_\_\_\_ cm

10m = \_\_\_\_\_ cm

100m = \_\_\_\_\_ cm

2,000m = \_\_\_\_\_ cm

30,000m = \_\_\_\_\_ cm

400,000m = \_\_\_\_\_ cm

6. Complete the table

	m	dm	cm
16m			
54dm			
3m			

	mm	m	km
12km			
20m			

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7. Complete the math sentence:

$9 \text{ dm} + \underline{\hspace{1cm}} = 1\text{m}$

$5 \text{ dm} + \underline{\hspace{1cm}} = 1 \text{ m}$

$7 \text{ dm} + \underline{\hspace{1cm}} = 1\text{m}$

$28\text{cm} + \underline{\hspace{1cm}} = 1\text{m}$

$34\text{cm} + \underline{\hspace{1cm}} = 1\text{m}$

$83\text{cm} + \underline{\hspace{1cm}} = 1\text{m}$

$90\text{cm} + \underline{\hspace{1cm}} = 1\text{m}$

$1\text{m} - 13\text{cm} = \underline{\hspace{1cm}} \text{ cm}$

$1\text{m} - 47\text{cm} = \underline{\hspace{1cm}} \text{ cm}$

$1\text{m} - 69\text{cm} = \underline{\hspace{1cm}} \text{ cm}$

$1\text{m} - 6\text{dm} = \underline{\hspace{1cm}} \text{ dm}$

$1\text{m} - 67\text{cm} = \underline{\hspace{1cm}} \text{ dm}$

$1\text{m} - 92\text{mm} = \underline{\hspace{1cm}} \text{ dm}$

$1\text{m} - 4\text{dm} = \underline{\hspace{1cm}} \text{ dm}$

8. What is the area of parallelogram with base 25cm, height 18cm and side length 10cm?

9. Fill in the blanks

$1/8\text{km} = \underline{\hspace{1cm}} \text{ m}$

$1/4 \text{ dl} = \underline{\hspace{1cm}} \text{ ml}$

$1/6 \text{ cm} = \underline{\hspace{1cm}} \text{ mm}$

$1/7 \text{ kg} = \underline{\hspace{1cm}} \text{ g}$

$1/10 \text{ km} = \underline{\hspace{1cm}} \text{ dm}$

$1/2 \text{ cl} = \underline{\hspace{1cm}} \text{ ml}$

10. The area of rectangle is  $108 \text{ cm}^2$  and its height is 90mm. What is its base?

11. Peter begins a new walking program with 600m on the first day. Each day she will increase her walk by 20dm. How many kilometers will she walk on day 18 of her program?

12. Sean wants to surround her garden on all four sides with fencing. Her rectangular garden is 2700mm by 13dm. How many meters of fencing will she need?

13. Decide if the left side is  $>$ ,  $<$  or  $=$  to the right side:

$\frac{1}{2}$ km \_\_\_\_\_ 500 m  
5m 30dm \_\_\_\_\_ 5 dm 30cm  
50dm \_\_\_\_\_ 5,000cm

8kg \_\_\_\_\_ 800 mg  
30 L \_\_\_\_\_ 3,000 mL  
4kg \_\_\_\_\_ 4,000 g

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14. Express in meters:

$90,000 \text{ dm} = \underline{\hspace{2cm}} \text{ m}$

$12,400 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

$400,000 \text{ mm} = \underline{\hspace{2cm}} \text{ m}$

$43,000 \text{ mm} = \underline{\hspace{2cm}} \text{ m}$

$15,400 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

$300,000 \text{ mm} = \underline{\hspace{2cm}} \text{ m}$

15. Each of Mr.Keough's plants needs 250mL of water each week. If she has 13 plants, how many liters of water will she use on them each week?

16. Andrea bought 10 bananas. Each banana weighed 50 grams. If the price of bananas was \$3.50 per kilogram, how much did Andrea pay?

17. Jessica bought a 5kg bag of cherries at the market and ate 175g of them on the way home. How many grams of cherries did Jessica have left by the time she got home?

18. At the playground the new sandbox was 3 meters wide and 200cm long. What is the area and perimeter of the sandbox?

### Metric System Test 3

#### WHICH MEASUREMENT WOULD BE MOST APPROPRIATE?

19. A blender most likely holds 2 milliliters or 2 liters?
  20. At the grocery store Carol bought the largest size soda they sold. Was it a 2
  21. The volume of a bathroom sink is most likely 8 liters or 8 milliliters?
  22. A fish tank most likely uses 130 milliliters or 130 liters of water?
  23. A can of soda is most likely 350 milliliters or 350 liters?
  24. A packet of ketchup is most likely 1 milliliter or 1 liter?
  25. Isabel was painting her room. Did she most likely buy 10 liters or 10 milliliters of paint?
  26. If you were trying to measure how much juice was in a can of peaches would you most likely use liters or milliliters?
  27. A wheel barrow most likely would hold 170 liters or 170 milliliters of sand?
  28. A spray bottle of window cleaner is probably 650 milliliters or 650 liters?
  29. Gwen bought a bottle of water. Was it most likely 600 milliliters or 600 liters?
  30. Cody poured himself a glass of water. The glass was probably closer to 350 milliliters or 350 liters?
  31. Edward was trying to see how much water his pool had in it. Should he measure the volume in milliliters or liters?
  32. A jar of mayonnaise most likely has 450 milliliters or 450 liters?
  33. The average bathtub holds 170 milliliters or 170 liters?
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34. Sarah's house is 7 meters tall. Sean's house is 8dm shorter than Sarah's. Nick's house is 300cm taller than Sarah's.  
Who has the shortest house?
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35. Jose wants new carpeting for his living room. His living room is an 8 m by 85 dm rectangle. How much carpeting does he need to buy to cover his entire living room?
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36. A wooded area is in the shape of a a trapezoid whose bases measure 128 m and 9,200 cm and its height is 400 dm. A 4 m wide walkway is constructed which runs perpendicular from the two bases. Calculate the area of the wooded area after the addition of the walkway.