Metric System Test 4

1. Compare:

160 m + 240m ___ 1000 m   970cm+ 130m ___ 1km   1km – 37620 cm ____ 5,900m
6,250cm + 120m ____ 1000 m   1,700m + 250cm ___ 1 km   1km – 390cm _____ 1,610 m

2. Convert:

59m = _____ dm   128,000 cm = _____ m   1m 4cm = _____ cm   23,412 cm = ____ m ___ cm
63m= _____ cm   36,300 cm = _____ m   37m 9cm 3000mm= _____ dm   21,208cm = ____ m ____ cm
                        178,000 cm = _____ dm   40m 16cm 50mm= _____ cm   690cm = _____ m ____ cm

3. How many millimeters:
    15dm 32cm 2mm = _____
    112dm 2cm 3mm = _____   8dm 73cm 3mm = _____

    141m 50dm 3cm= _____   3m 4cm 7mm= _____ mm
    6m 0dm 2mm= _____   82m 2dm 3 cm 13mm= _____ mm

4. Convert:

 1,800m = ____ dm   60m 3dm = _____ dm   2,140 dm = _____ m
  805m = ____ dm   12m 3dm = _____ dm   77 dm = _____ m
                           102m 1dm = _____ dm   12,100 dm = _____ m

5. Fill in the blanks

5m = _____ dm   100m = _____ dm   30,000m = _____ dm
10m = _____ dm   2,000m = _____ dm   400,000m = _____ dm

6. Complete the table

	m	dm	cm
16m			
52dm			
2m			

	mm	m	km
18km			
30m			

7. Complete the math sentence:

28cm+ _____ = 1m

34cm + _____ = 1m

83cm + _____ = 1m

90cm + _____ = 1m

1m – 12cm = _____ cm

1m – 47cm= _____ cm

1m – 71cm= _____ cm

1m – 6dm = _____ cm

1m – 67cm = _____ dm

1m – 83mm = _____ dm

1m – 4dm = _____ cm

8. A bathroom floor had a length of 300cm and a total area of 21m². What is the width of the bathroom floor?

9. Fill in the blanks

1/6km = _____ dm

1/5 L = _____ mL

1/5 dm = _____ mm

1/8 kg = _____ g

1/100 km = _____ cm

1/5 cl = _____ ml

10. The area of a trapezoid is 516 m² and its height is 24m. If one side is 19m, how long is the other side?

11. Hudson wants to write a letter to his friend. He took out square paper which covers the total area of 196cm². What is the length of any side of the paper expressed in mm?

12. William bought a new desk that measures 11 dm by 23 dm. He wants to put a cover on the desk that costs $18 per square meter. How much will it cost William to buy a desk cover?

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

1/2km _____ 500 dm

5m 30dm _____ 50dm 30cm

50m _____ 5,000cm

8kg _____ 8,000 g

300 L _____ 3,000 mL

4kg _____ 4,000 g

14. Express in meters:

100,000 dm = _____ m

22,200 cm = _____ m

900,000mm = _____ m

83,000mm = _____ m

18,400 cm = _____ m

200,000 mm = _____ m

15. Each of Mr.Keough's plants needs 150mL of water each week. If she has 18 plants, how many liters of water will she use on them each week?

16. The first side of a triangle is 2 cm shorter than the second side. The third side is 5 cm longer than the second. If the perimeter is 18cm, how long is each side.

17. A box contains 4 bags of sugar. The total mass of all 4 bags is 6 kg. What is the mass of each bag in grams?

18. If one side of a square is increased by 8 cm and an adjacent side decreased by 2 cm, a rectangle is formed whose perimeter is 40 cm. Find the length and width of the rectangle.

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?

34. Charlie's eraser has a mass of 20 grams. How many milligrams are in 20 grams?

35. I have 1 litre of water in a jug. On the way to my table I spill some. I have 780ml left. How much have I lost?

36. I have a big bucket. I need to put 1 litre of water in it for my science enquiry but I only have a 150ml and 25 ml containers. How can I get 1 litre of water using these containers?

37. Johnny, Mg Mg and Anthony fill up some water-balloons with water. Inside each water-balloon there is 300ml of water. They manage to throw two balloons on T. Thet Htun and three on T. Julie. T. Ma Lian sees what they are doing and pops 4 balloons so she does not get wet. How much water hit a teacher?