

Metric System Test 2

1. Compare:

$1750 \text{ m} + 240 \text{ m} \underline{\hspace{1cm}} 1000 \text{ m}$

$890 \text{ cm} + 120 \text{ m} \underline{\hspace{1cm}} 1 \text{ km}$

$1 \text{ km} - 37520 \text{ cm} \underline{\hspace{1cm}} 490 \text{ m}$

$32850 \text{ cm} + 250 \text{ m} \underline{\hspace{1cm}} 1000 \text{ m}$

$790 \text{ m} + 250 \text{ km} \underline{\hspace{1cm}} 1 \text{ km}$

$1 \text{ km} - 390 \text{ cm} \underline{\hspace{1cm}} 710 \text{ m}$

2. Convert:

$50 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$

$1,300 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

$1 \text{ m } 840 \text{ cm} = \underline{\hspace{2cm}} \text{ cm}$

$3,112 \text{ cm} = \underline{\hspace{1cm}} \text{ m } \underline{\hspace{1cm}} \text{ cm}$

$900 \text{ m} = \underline{\hspace{2cm}}$

$56,700 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

$37 \text{ m } 92 \text{ cm } 300 \text{ mm} = \underline{\hspace{2cm}} \text{ cm}$

$1,205 \text{ cm} = \underline{\hspace{1cm}} \text{ m } \underline{\hspace{1cm}} \text{ cm}$

cm

$10,00 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

$450 \text{ m } 6 \text{ cm } 50 \text{ mm} = \underline{\hspace{2cm}} \text{ cm}$

$681 \text{ cm} = \underline{\hspace{1cm}} \text{ m } \underline{\hspace{1cm}} \text{ cm}$

3. How many millimeters:

$54 \text{ dm } 5 \text{ cm } 6 \text{ mm} = \underline{\hspace{2cm}}$

$12 \text{ dm } 120 \text{ cm } 13 \text{ mm} = \underline{\hspace{2cm}}$

$8 \text{ dm } 97 \text{ cm } 3 \text{ mm} = \underline{\hspace{2cm}}$

$47 \text{ m } 52 \text{ dm } 3 \text{ cm} = \underline{\hspace{2cm}}$

$7 \text{ m } 42 \text{ cm } 1 \text{ mm} = \underline{\hspace{2cm}} \text{ mm}$

$5 \text{ m } 23 \text{ dm } 3 \text{ mm} = \underline{\hspace{2cm}}$

$87 \text{ m } 33 \text{ mm} = \underline{\hspace{2cm}} \text{ mm}$

4. Convert:

$300 \text{ m} = \underline{\hspace{1cm}} \text{ dm}$

$67 \text{ m } 3 \text{ dm} = \underline{\hspace{1cm}} \text{ dm}$

$140 \text{ dm} = \underline{\hspace{1cm}} \text{ m}$

$80 \text{ m} = \underline{\hspace{1cm}} \text{ dm}$

$17 \text{ m } 9 \text{ dm} = \underline{\hspace{1cm}} \text{ dm}$

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

$100 \text{ m } 2 \text{ dm} = \underline{\hspace{1cm}} \text{ dm}$

$1,110 \text{ dm} = \underline{\hspace{1cm}} \text{ m}$

5. Fill in the blanks

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

$10 \text{ m} = \underline{\hspace{1cm}} \text{ cm}$

$5,000 \text{ m} = \underline{\hspace{1cm}} \text{ cm}$

$2 \text{ m} = \underline{\hspace{1cm}} \text{ cm}$

$300 \text{ m} = \underline{\hspace{1cm}} \text{ cm}$

$60,000 \text{ m} = \underline{\hspace{1cm}} \text{ cm}$

6. Complete the table

	m	dm	cm
82m			
15dm			
28m			

	mm	m	km
3km			
3m			

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7. Complete the math sentence:

$$1 \text{ dm} + \underline{\quad} = 1 \text{ m}$$

$$2 \text{ dm} + \underline{\quad} = 1 \text{ m}$$

$$6 \text{ dm} + \underline{\quad} = 1 \text{ m}$$

$$12 \text{ cm} + \underline{\quad} = 1 \text{ m}$$

$$72 \text{ cm} + \underline{\quad} = 1 \text{ m}$$

$$44 \text{ cm} + \underline{\quad} = 1 \text{ m}$$

$$88 \text{ cm} + \underline{\quad} = 1 \text{ m}$$

$$1 \text{ m} - 28 \text{ cm} = \underline{\quad} \text{ cm}$$

$$1 \text{ m} - 81 \text{ cm} = \underline{\quad} \text{ cm}$$

$$1 \text{ m} - 57 \text{ cm} = \underline{\quad} \text{ cm}$$

$$1 \text{ m} - 2 \text{ dm} = \underline{\quad} \text{ dm}$$

$$1 \text{ m} - 77 \text{ cm} = \underline{\quad} \text{ dm}$$

$$1 \text{ m} - 90 \text{ mm} = \underline{\quad} \text{ dm}$$

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

8. It must be hereditary, Devon decided. I am going to be tall, maybe even 2 meters and 10cm tall. Since that doesn't sound so tall, he decided to tell people his height in decimeters. That would sound better. What is Devon's height in decimeters?

9. Fill in the blanks

$$\frac{1}{4} \text{ km} = \underline{\quad} \text{ cm}$$

$$\frac{1}{4} \text{ g} = \underline{\quad} \text{ cm}$$

$$\frac{1}{5} \text{ cm} = \underline{\quad} \text{ mm}$$

$$\frac{1}{5} \text{ kg} = \underline{\quad} \text{ g}$$

$$\frac{1}{2} \text{ km} = \underline{\quad} \text{ cm}$$

$$\frac{1}{3} \text{ h} = \underline{\quad} \text{ seconds}$$

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10. Our property has five sides. They are seventy-two meters, one hundred ten meters, one hundred seventeen meters, eighty-five meters and one hundred thirteen meters. What is the perimeter of our property?
11. Da'Ron was helping his father fix their car. His father told him to bring him the one hundred-fifty mm socket wrench. Da'Ron handed his father a hundred-fifty cm socket wrench. How much bigger was the wrench that Da'Ron gave his father?
12. Anthony has a pet spider and a pet guinea pig. The spider is 121 mm long and the guinea pig is 15 dm long. How much longer is the guinea pig than the spider (in mm)?

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

$\frac{1}{2}$ m _____ 30 cm
5m 3dm _____ 5 dm 30cm
30dm _____ 300 cm

8kg _____ 80 km
20 L _____ 200 mL
3kg _____ 3,000 g

14. Express in meters:

5,000 dm = _____ m
11,300 cm = _____ m

500,000mm = _____ m
132,000mm = _____ m

175,400 cm = _____ m
8,000 mm = _____ m

15. Our property has five sides. They are seventy-two meters, one hundred ten meters, one hundred seventeen meters, eighty-five meters and one hundred thirteen meters. What is the perimeter of our property?

16. A square barn has sides that are 5m 30cm long. What is the barn's area and perimeter?

17. John rode 22 kilometers on his bike. His sister Sally rode 3,800 meters on her bike. Who rode the farthest and how much farther did they ride (answer in km)?

18. Ezra's stuffed animal has a mass of 380 g. How many mg is the stuffed animal?

Metric System Test 2

WHICH IS THE BEST UNIT:

19. The amount of water a small cup can hold _____
 20. The weight of a car _____
 21. The distance between two cities _____
 22. The weight of a flower _____
 23. The length of a large forest _____
 24. The height of a building _____
 25. The weight of a refrigerator _____
 26. The amount of liquid in a bowl of cereal _____
 27. The weight of a pencil _____
 28. The length of a driveway _____
 29. The length of a classroom _____
 30. The weight of a notebook _____
 31. The amount of liquid a pot can hold _____
 32. The amount of liquid in a pitcher _____
 33. The weight of a five year-old _____
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34. If one paperclip has the mass of 1 gram and 1,000 paperclips have a mass of 1 kilogram, how many kilograms are 8,000 paperclips?

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

 36. 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?