Metric Units of Length

Find each missing number.

1. \(20 \text{ km} = \underline{______} \text{ m}\)
2. \(400 \text{ mm} = \underline{______} \text{ cm}\)
3. \(27 \text{ cm} = \underline{______} \text{ mm}\)
4. \(5 \text{ m} = \underline{______} \text{ cm}\)
5. \(8,000 \text{ m} = \underline{______} \text{ km}\)
6. \(80 \text{ cm} = \underline{______} \text{ dm}\)
7. \(100 \text{ km} = \underline{______} \text{ m}\)
8. \(1,200 \text{ mm} = \underline{______} \text{ cm}\)
9. \(144 \text{ cm} = \underline{______} \text{ mm}\)
10. \(18 \text{ m} = \underline{______} \text{ cm}\)
11. \(15,000 \text{ m} = \underline{______} \text{ km}\)
12. \(150 \text{ cm} = \underline{______} \text{ dm}\)

Choose the better estimate of length.

13. height of your door
   a. 2 m  b. 2 km
14. length of your book
   a. 30 cm  b. 30 dm
15. width of your U.S. State
   a. 500 mm  b. 500 km
16. your height
   a. 1 m  b. 25 dm

Copy and complete the tables. Write the rule for each table.

17. Equivalent measures of length

<table>
<thead>
<tr>
<th>km</th>
<th>2</th>
<th>4</th>
<th>6</th>
<th>10</th>
<th>15</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>m</td>
<td>2,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

18. Equivalent measures of length

<table>
<thead>
<tr>
<th>mm</th>
<th>40</th>
<th>50</th>
<th>70</th>
<th>90</th>
<th>100</th>
<th>150</th>
</tr>
</thead>
<tbody>
<tr>
<td>cm</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

19. Which is the best unit for measuring the length of a playground?
   A m  C dm
   B mm  D km

20. Barry wants to write 12,000 meters, using the fewest number of digits. How else could he write this distance? Explain how you got your answer.

   ______________________________________________________
   ______________________________________________________
   ______________________________________________________

Use with text pages 320–321.