Conversions in Metric Units of Length.

Think back to our work on converting units of measure related to length.

Here's a song to help you think about what makes up each unit of length and how big these units of measure are:

https://www.youtube.com/watch?v=djTNUp4XIRo

For today's task, we are going to concentrate on the relationship between centimetres and millimetres.

Remember to use a ruler to help you convert from centimetres (cm) to millimetres (mm) and vice versa.

There are 10 mm in every 1 cm.

Think:

If I convert cm to mm

Big to small units of measure

(Best soccer mum)

Multiply by 10

X 10

1 cm = 10mm

85cm = 850mm

X 10

÷ 10

1 cm = 10 mm

1030cm = 10,300mm

÷ 10

Think:

If I convert mm to cm

Small to big units of measure

(Silly babies dancing)

Divide by 10

See whether you can use this method to solve the maths riddle below.

Why was Cinderella thrown off the baseball team?

Directions: Solve each problem. Look for your answer in the decoder at the bottom of the page. Each time your answer appears, write the letter of the problem above it.

1. 1cm = _____ mm   (O)

2. 2cm = _____ mm   (R)

3. 6cm = _____ mm   (B)

4. 14cm = _____ mm   (M)

5. 10mm = _____ cm   (N)

6. 30mm = _____ cm   (W)

7. 90mm = _____ cm   (T)

8. 110mm = _____ cm   (E)

9. 75cm = _____ mm   (A)

10. 943cm = _____ mm   (H)

11. 204060mm = _____ cm   (F)

12. 20400mm = _____ cm   (L)

13. 15mm = _____ cm   (Y)

14. 3 ½cm = _____ mm   (S)

___ ___ ___   ___ ___ ___   ___ ___ ___ ___
35 9430 11   20 750   1   750   3 750 1 ½

___ ___ ___ ___   ___ ___ ___ ___   ___ ___ ___ ___
20406 20 10 140   9 9430 11   60 750 2040 2040

Skill: converting metric units

Answers:

1. 10mm
2. 20mm
3. 60mm
4. 140mm
5. 1cm
6. 3cm
7. 9cm
8. 11cm
9. 750mm
10. 9430mm
11. 20,406cm
12. 2,040cm
13. 1 ½ cm
14. 35mm

<u>Code breaker solution:</u>

Why was Cinderella thrown off the baseball team?
SHE RAN AWAY FROM THE BALL!