Length word problems (metric units)

Grade 5 Word Problems Worksheets

Read and answer each question:

1. Ashley's teacher asked her to bring 3 pieces of yarn, each no shorter than 0.8 m, for an art project. Ashley found a piece of old yarn at home that is 280 cm long. Does she have enough yarn to bring to school?
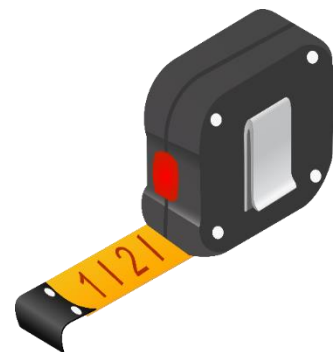
2. The height of the tree is 4.2 m. Jack's ladder is 2.8 m tall. Jack is 179 cm tall. Compared to the tree, how much taller (measured in cm) is Jack if he is standing at the top of the ladder?

3. The diameter of a coin is 26 mm. Matthew lined up 57 coins from the left end of his desk to the right end of his desk. What is the width (measured in cm) of his desk?

4. A turtle crawls 567 mm in 27 minutes. How far (measured in cm) can the turtle crawl in a minute?

5. The thickness of each book is 39 mm and each book stand is 5.5 cm wide. A bookshelf holds 45 books and two book stands. How long (measured in m) is the bookshelf?

6. The thickness of each eraser is 17mm. A stack of 230 eraser is about _____ meters tall.
    a. 4,000
    b. 4
    c. 40

Answers

1. 3 x 0.8 m = 2.4 m = 240 cm
   Ashley needs at least 240 cm of yarn.
   She has enough yarn to bring to school.

2. 2.8 m + 179 cm – 4.2 m
   = 280 cm + 179 cm – 420 cm
   = 39 cm
   Jack is 39 cm taller than the tree if he is standing at the top of the ladder.

3. 26mm x 57 = 1482 mm = 148.2 cm
   The width of his desk is 148.2 cm.

4. $567 \div 27 = 21$
   21mm = 2.1 cm
   The turtle can crawl 2.1 cm in a minute.

5. 39 mm x 45 = 1755 mm = 1.755 m
   5.5 x 2 = 11 cm = 0.11 m
   1.755 + 0.11 = 1.865
   The bookshelf is 1.865 m long.

6. b