

Master Maths 8 Worksheet 14

Decimal Numbers - Problem Solving

14

Name: _____

1. Find the following number:

- it has four digits
- it is bigger than one
- its four digits add to 10
- it has twice as many thousandths as tenths
- it has twice as many hundredths as thousandths

2. Mary came first in a 100 m sprint, Liz came second and Keira came third.

Mary's time was three hundredths of a second faster than the previous record of 12.67 seconds. Mary was nine hundredths of a second faster than Liz. Liz was 0.35 seconds faster than Keira. Find the times run by the three runners.

Mary

Liz

Keira

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3. The following items were packed into a box to be posted. To get an approximate total weight of the packed box, round the weight of each item and the box to **one decimal place** and add them together.

Item	Weight	Rounded weight
Box	0.28 kg	
Books	3.34 kg	
Box of paint	2.59 kg	
Tools	4.83 kg	
Ceramic Pot	2.37 kg	
Total		

4. A carpenter cut a 2.5 metre long timber plank into four equal lengths. What is the length of each of the pieces?

5. A sweets company produces toffee in large blocks that weigh 18.75 kg. These large blocks are divided into 600 equal pieces.

(a) What is the weight of each small piece?

(b) The toffee is sold in small bags containing 20 of these small pieces. What does each of these small bags weigh?

(c) How many pieces of toffee would be needed to make a bag weighing 1 kg?

6. A book containing 420 pages is 24 mm thick.

(a) How many sheets of paper are in the book?

(b) How thick is each sheet of paper? Give answer correct to **four decimal places**.

(c) How thick will be a book of 520 pages made with the same paper? Give answer correct to **one decimal place**.

7. Find the average height of these four people:
Sam: 1.57 m, Joe: 1.73 m, Kim: 1.68 m,
Zeb: 1.74 m