



Converting Units of Length

I can convert between millimetres, centimetres and metres.



Millimetres and Centimetres

1. Here are some of the items that Lydia has in her pencil case. Some of the measurements are given in centimetres, some are in millimetres and some are in both. Order the items by length from shortest to longest:

Order:

shortest:

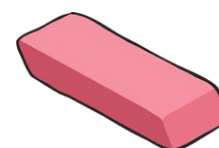
longest:



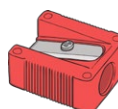
ruler **19cm**



pen **10cm 8mm**



rubber **3cm 5mm**



sharpener **20mm**



pencil **170mm**

2. Convert these measurements into centimetres and millimetres by dividing by 10. Two examples are done for you.

Millimetres	Centimetres/Centimetres and Millimetres
40mm	
70mm	7cm
120mm	
35mm	
65mm	
135mm	
45mm	4cm 5mm
25mm	



Converting Units of Length

Centimetres and Metres

3. A group of children jumped in a long jump competition. Change the measurement of how far each child jumped into metres and centimetres. The first one is done for you:

Name	Centimetres	Metres and Centimetres
Leandra	230cm	
Petra	450cm	
Aliyah	265cm	
Tasweer	290cm	
Ben	490cm	
Carter	523cm	

Write the children's names in order of how far they jumped, from the furthest to the shortest.

1st) _____ 2nd) _____ 3rd) _____

4th) _____ 5th) _____ 6th) _____

4. Change these measurements from centimetres into metres.

300cm = _____m	900cm = _____m
700cm = _____m	850cm = _____m _____cm
430cm = _____m _____cm	655cm = _____m _____cm
680cm = _____m _____cm	460cm = _____m _____cm
435cm = _____m _____cm	325cm = _____m _____cm



Converting Units of Length Answers

1. Order:

shortest:

sharpener

rubber

pen

pencil

longest:

ruler

2.

Millimetres	Centimetres/Centimetres and Millimetres
40mm	4cm
70mm	7cm
120mm	12cm
35mm	3cm 5mm
65mm	6cm 5mm
135mm	13cm 5mm
45mm	4cm 5mm
25mm	2cm 5mm

3.

Name	Centimetres	Metres and Centimetres
Leandra	230cm	2m 30cm
Petra	450cm	4m 50cm
Aliyah	265cm	2m 65cm
Tasweer	290cm	2m 90cm
Ben	490cm	4m 90cm
Carter	523cm	5m 23cm

1st) Carter 2nd) Ben 3rd) Petra 4th) Tasweer 5th) Aliyah 6th) Leandra

4.

300cm = 3m	900cm = 9m
700cm = 7m	850cm = 8m 50cm
430cm = 4m 30cm	655cm = 6m 55cm
680cm = 6m 80cm	460cm = 4m 60cm
435cm = 4m 35cm	325cm = 3m 25cm



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Millimetres and Centimetres

1. Class 4 found five pencils on the floor and measured them in either mm or cm and mm. Give the alternative measurement for each pencil.

9cm 2mm



mm

cm mm



115mm

5cm 6mm



mm

cm mm



124mm

13cm 5mm



mm

Here are the lengths of some small mammals.



Mouse: 125mm



Rat: 19cm 4mm



Rabbit: 65cm



Gerbil: 200mm



Guinea pig: 27cm 5mm



Hedgehog: 24cm



Converting Units of Length

2. Complete the following table about these small mammals:

Animal	Centimetres and Millimetres	Millimetres
mouse		
rat		
rabbit		
gerbil		
guinea pig		
hedgehog		

3. Use your table to order the mammals in size from shortest to longest.

shortest:

longest:

Centimetres and Metres

4. This table shows the height of some dinosaurs. Some measurements are written in centimetres and some in metres and centimetres. Complete the table.

Dinosaur	Centimetres	Metres and Centimetres
Diplodocus	730cm	
Spinosaurus		2m 45cm
Megalosaurus		3m 70cm
Apatosaurus	450cm	
Allosaurus	525cm	
Triceratops		2m 85cm

5. Order the dinosaurs from tallest to shortest.

tallest:

shortest:



Converting Units of Length **Answers**

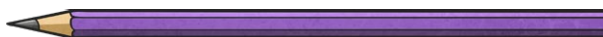
1.

9cm 2mm



92mm

11cm 5mm



115mm

5cm 6mm



56mm

12cm 4mm



124mm

13cm 5mm



135mm

2.

Animal	Centimetres and Millimetres	Millimetres
mouse	12cm 5mm	125mm
rat	19cm 4mm	194mm
rabbit	65cm	650mm
gerbil	20cm	200mm
guinea pig	27cm 5mm	275mm
hedgehog	24cm	240mm

3. shortest:

mouse

rat

gerbil

hedgehog

guinea pig

rabbit

longest:



Converting Units of Length **Answers**

4.

Dinosaur	Centimetres	Metres and Centimetres
Diplodocus	730cm	7m 30cm
Spinosaurus	245cm	2m 45cm
Megalosaurus	370cm	3m 70cm
Apatosaurus	450cm	4m 50cm
Allosaurus	525cm	5m 25cm
Triceratops	285cm	2m 85cm

5. tallest:

Diplodocus

Allosaurus

Apatosaurus

Megalosaurus

Triceratops

shortest:

Spinosaurus



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Millimetres and Centimetres

1. Here are the dimensions (width \times length) of paper sizes, some in millimetres and some in centimetres and millimetres. Fill in the gaps on the tables.

Paper Size	Millimetres width \times length	Centimetres and Millimetres width \times length
A0	841 mm \times 1189mm	
A1		59cm 4mm \times 84cm 1mm
A2	420mm \times 594mm	
A3		29cm 7mm \times 42cm
A4		14cm 8mm \times 29cm 7mm
A5	148mm \times 210mm	
A6	105mm \times 148mm	
A7		7cm 4mm \times 10cm 5mm
A8		5cm 2mm \times 7cm 4mm
A9	37mm \times 52mm	
A10	26mm \times 37mm	

2. Answer these questions, comparing either the length or width of paper sizes.

- How much longer is the length of a piece of A7 paper than A8? _____
- How much wider is the width of a piece of A3 paper than A5? _____
- How much shorter is the length of a piece of A10 paper than A0? _____



Converting Units of Length

Centimetres and Metres

3. This table shows the length of some of the largest sea creatures. Some measurements are written in centimetres and some in metres and centimetres. Complete the table.

Animal	Centimetres	Metres and Centimetres
blue whale		33m
basking shark	1227cm	
lion's mane jellyfish		36m 60cm
giant manta ray	700cm	
sperm whale	2400cm	
southern elephant seal		6m 85cm

4. Order the creatures from longest to shortest.

longest:

shortest:



Converting Units of Length Answers

1.

Paper Size	Millimetres width × length	Centimetres and Millimetres width × length
A0	841 mm × 1189mm	84cm 1mm × 118cm 9mm
A1	594mm × 841mm	59cm 4mm × 84cm 1mm
A2	420mm × 594mm	42cm × 59cm 4mm
A3	297mm × 420mm	29cm 7mm × 42cm
A4	210mm × 297mm	21cm × 29cm 7mm
A5	148mm × 210mm	14cm 8mm × 21cm
A6	105mm × 148mm	10cm 5mm × 14cm 8mm
A7	74mm × 105mm	7cm 4mm × 10cm 5mm
A8	52mm × 74mm	5cm 2mm × 7cm 4mm
A9	37mm × 52mm	3cm 7mm × 5cm 2mm
A10	26mm × 37mm	2cm 6mm × 3cm 7mm

2.

- How much longer is the length of a piece of A7 paper than A8? **31mm or 3cm 1mm**
- How much wider is the width of a piece of A3 paper than A5? **149mm or 14cm 9mm**
- How much shorter is the length of a piece of A10 paper than A0? **1152mm or 115cm 2mm**

3.

Animal	Centimetres	Metres and Centimetres
blue whale	3300cm	33m
basking shark	1227cm	12m 27cm
lion's mane jellyfish	3660cm	36m 60cm
giant manta ray	700cm	7m
sperm whale	2400cm	24m
southern elephant seal	685cm	6m 85cm

4.

longest:

lion's mane jellyfish

blue whale

sperm whale

basking shark

giant manta ray

shortest:

southern elephant seal