<u>Varied Fluency</u> Step 3: Equivalent Lengths – mm and cm

National Curriculum Objectives:

Mathematics Year 3:(3M1a) Compare lengths (m/cm/mm)
Mathematics Year 3:(3M2a) Measure lengths (m/cm/mm)

Differentiation:

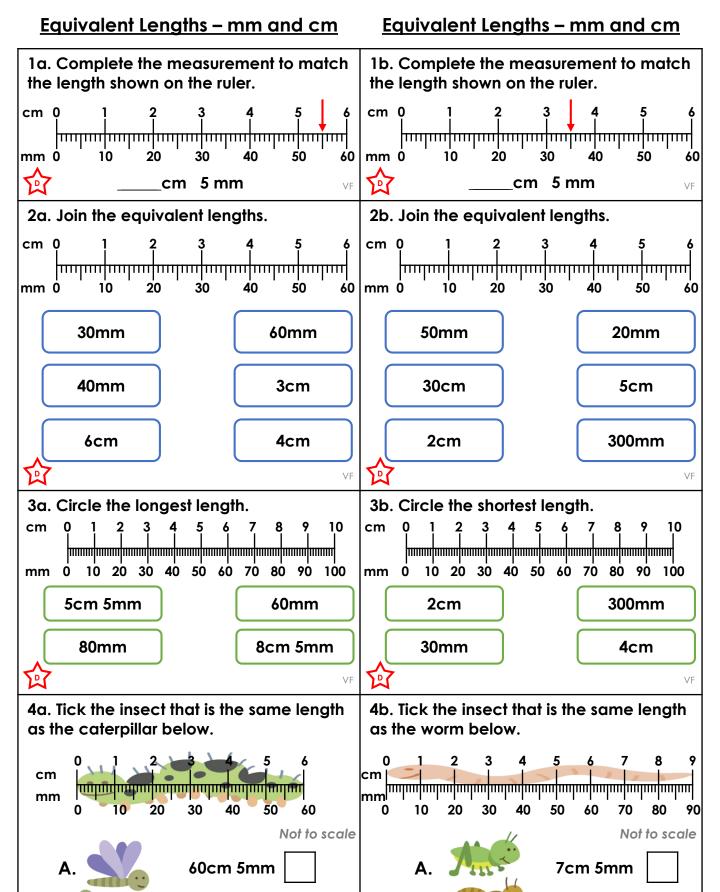
Developing Questions to support converting from mm to cm and vice versa. Lengths in multiples of 5mm. Scaffolding provided and all increments shown on a ruler. Expected Questions to support converting from mm to cm and vice versa. Lengths in increments of 1mm. All increments shown on a ruler.

Greater Depth Questions to support converting from mm to cm and vice versa. Lengths in increments of 1mm, using 0 as a place holder in the tens columns for some lengths and use of halves. Some ruler increments shown and some use of unconventional partitioning.

More Year 3 Length and Perimeter resources.

Did you like this resource? Don't forget to review it on our website.







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9cm

19cm

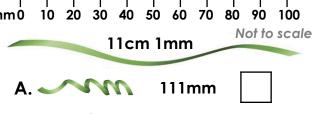
6cm 5mm

6cm

Equivalent Lengths – mm and cm Equivalent Lengths – mm and cm 5a. Complete the measurement to match 5b. Complete the measurement to match the length shown on the ruler. the length shown on the ruler. 10 0 cm cm 10 20 30 40 50 60 70 80 90 100 10 20 30 40 50 60 70 80 90 mm mm 0 mm E cm ____ mm cm 6a. Join the equivalent lengths. 6b. Join the equivalent lengths. cm 0 30 50 60 mm 0 10 20 30 33mm 4cm 5mm 76mm 9cm 5mm 82mm 95cm 69mm 45mm 8cm 2mm 3cm 3mm 6cm 9mm 7cm 6mm 7a. Circle the longest length. 7b. Circle the shortest length. cm cm 10 10 20 30 40 50 60 70 80 90 100 10 20 30 40 50 60 70 80 90 100 mm 0 533mm 63mm 52cm 6mm 4cm 9mm 58mm 5cm 9mm 56mm 4cm 4mm 8a. Tick the ribbon that is the same length 8b. Tick the ribbon that is the same length as the one below. 10 cm 0 10 cm 0

as the one below.







10cm 1mm

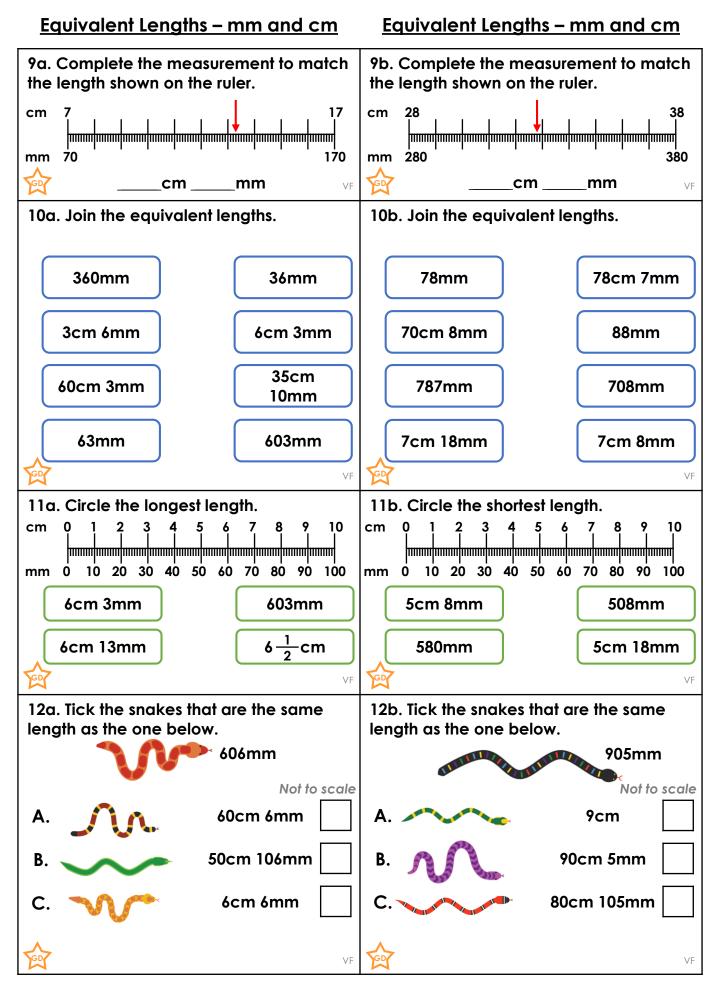


8cm 5mm **∼75cm 1mm**

85mm 855mm



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Developing

1a. 5cm 5mm
2a. 30mm = 3cm
40mm = 4cm
6cm = 60mm
3a. 8cm 5mm
4a. C

Expected

5a. 6cm 2mm 6a. 33mm = 3cm 3mm; 45mm = 4cm 5mm; 8cm 2mm = 82mm 7a. 533mm 8a. A

Greater Depth

Developing

1b. 3cm 5mm 2b. 50mm = 5cm 30cm = 300mm 2cm = 20mm 3b. 2cm 4b. B

Expected

5b. 9cm 9mm
6b. 76mm = 7cm 6mm
95mm = 9cm 5mm
6cm 9mm = 69mm
7b. 4cm 4mm
8b. B

Greater Depth

12b. B and C

9b. 32cm 8mm 10b. 78mm = 7cm 8mm 70cm 8mm = 708mm 787mm = 78cm 7mm 7cm 18mm = 88mm 11b. 5cm 8mm