

# Varied Fluency

## Step 4: Draw Accurately

### National Curriculum Objectives:

Mathematics Year 3: (3G3a) [Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them](#)

### Differentiation:

**Developing** Questions to support drawing lines accurately to the cm. Horizontal lines only.  
**Expected** Questions to support drawing lines accurately to the nearest mm. Mostly horizontal and vertical lines with some slight diagonals. Measurements written in expanded form i.e. 10cm 8mm.

**Greater Depth** Questions to support drawing lines accurately to the nearest mm. Horizontal, vertical and diagonal lines, some which must meet a point. Measurements written in expanded form i.e. 10cm 8mm.

More [Year 3 Properties of Shapes](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

## Draw Accurately

1a. Measure these lines to the nearest cm and match them to their label.

A 

4cm

B 

5cm

C 

3cm



VF

## Draw Accurately

1b. Measure these lines to the nearest cm and match them to their label.

A 

5cm

B 

6cm

C 

7cm



VF

2a. Round these lengths to the nearest cm.

8cm 2mm

5cm 9mm



VF

2b. Round these lengths to the nearest cm.

3cm 8mm

5cm 1mm



VF

3a. True or false? This line is 6cm long.



VF

3b. True or false? This line is 8cm long.



VF

4a. Using a ruler, draw this measurement accurately:

A line between 1cm and 5cm



VF

4b. Using a ruler, draw this measurement accurately:

A line between 10cm and 12cm.



VF

## Draw Accurately

5a. Measure these lines in cm and mm and match them to their label.



4cm  
3mm



3cm  
6mm



3cm  
9mm



4cm  
6mm



VF

## Draw Accurately

5b. Measure these lines in cm and mm and match them to their label.



5cm  
7mm



4cm  
6mm



5cm  
3mm



4cm  
8mm



VF

6a. Round these lengths to the nearest cm.

21cm 3mm

39cm 8mm

16cm 3mm



VF

6b. Round these lengths to the nearest cm.

32cm 3mm

42cm 6mm

23cm 8mm



VF

7a. True or false? This line is 3cm 6mm long.



VF

7b. True or false? This line is 2cm 9mm long.



VF

8a. Using a ruler, draw these measurements accurately.

13cm 6mm

9cm 1mm

6cm 7mm



VF

8b. Using a ruler, draw these measurements accurately.

9cm 2mm

2cm 9mm

4cm 4mm



VF

## Draw Accurately

9a. Measure these lines in cm and mm and match them to their label.

A



3cm  
9mm

B



4cm  
5mm

C



2cm  
4mm



VF

## Draw Accurately

9b. Measure these lines in cm and mm and match them to their label.

A



4cm  
3mm

B



4cm  
8mm

C



3cm  
8mm



VF

10a. Round these lengths to the nearest cm.

55cm 9mm

75cm 3mm

89cm 1mm

59cm 9mm



VF

10b. Round these lengths to the nearest cm.

81cm 8mm

68cm 1mm

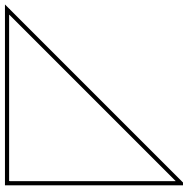
80cm 3mm

76cm 6mm



VF

11a. True or false? Two of the sides in this triangle are 2cm 3mm.



VF

11b. True or false? The long sides in this rectangle are 3cm 7mm.



VF

12a. Using a ruler, draw a triangle accurately using these measurements for 2 of the sides.

6cm 3mm

4cm 7mm



VF

12b. Using a ruler, draw a triangle accurately using these measurements for 2 of the sides.

5cm 8mm

3cm 2mm



VF

## Varied Fluency Draw Accurately

*Due to printer variations, children's measurements may vary slightly from answers given.*

### Developing

- 1a. A - 5cm, B - 3cm, C - 4cm
- 2a. 8cm, 6cm
- 3a. False (5cm)
- 4a. Any line drawn accurately between 1cm and 5cm.

### Expected

- 5a. A - 4cm 6mm, B - 3cm 9mm, C - 4cm 3mm, D - 3cm 6mm
- 6a. 21cm, 40cm, 16cm
- 7a. True
- 8a. Lines should measure: 13cm 6mm, 9cm 1mm, 6cm 7mm

### Greater Depth

- 9a. A - 2cm 4mm, B - 3cm 9mm, C - 4cm 5mm
- 10a. 56cm, 75cm, 89cm, 60cm
- 11a. True
- 12a. Triangle drawn with one side 6cm 3mm and another side 4cm 7mm.

## Varied Fluency Draw Accurately

*Due to printer variations, children's measurements may vary slightly from answers given.*

### Developing

- 1b. A - 7cm, B - 5cm, C - 6cm
- 2b. 4cm, 5cm
- 3b. True
- 4b. Any line drawn accurately between 10cm and 12cm.

### Expected

- 5b. A - 5cm 3mm, B - 4cm 8mm, C - 5cm 7mm, D - 4cm 6mm
- 6b. 32cm, 43cm, 24cm
- 7b. False (2cm 5mm)
- 8b. Lines should measure: 9cm 2mm, 2cm 9mm, 4cm 4mm

### Greater Depth

- 9b. A - 4cm 8mm, B - 4cm 3mm, C - 3cm 8mm
- 10b. 82cm, 68cm, 80cm, 77cm
- 11b. False (4cm 3mm)
- 12b. Triangle drawn with one side 5cm 8mm and another side 3cm 2mm.