Varied Fluency Step 4: Circles

National Curriculum Objectives:

Mathematics Year 6: (6G5) <u>Illustrate and name parts of circles, including radius, diameter</u> and circumference and know that the diameter is twice the radius

Differentiation:

Developing Questions to support recognising and finding the radius and diameter of circles, where the radius is directly divisible by 2. Measurements given in whole mm, cm and m.

Expected Questions to support recognising and finding the radius and diameter of circles, where the radius or diameter is not always a whole number. Measurements given in whole mm, cm and m.

Greater Depth Questions to support recognising and finding the radius and diameter of circles, where the radius or diameter is not always a whole number, and is sometimes presented as a fraction. Measurements given in whole mm, cm and m and may need converting.

More <u>Year 6 Statistics</u> resources.

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Varied Fluency – Circles – Teaching Information



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Varied Fluency – Circles – Year 6 Developing



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Varied Fluency – Circles – Year 6 Expected



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Varied Fluency – Circles – Year 6 Greater Depth

Varied Fluency <u>Circles</u>

Developing

1a. B
2a. Diameter – 12cm, Radius – 6cm
3a. 16m and 8m, 8m and 4m, 4m and 2m,
14m and 7m
4a. Radius – 2cm, Diameter – 4cm

Expected

5a. B 6a. Diameter – 54mm, Radius – 27mm 7a. 91m and 45.5m, 87m and 43.5m, 63m and 31.5m, 75m and 37.5m 8a. Radius – 2.5cm, Diameter – 5cm

Greater Depth

9a. B 10a. Diameter – 7.5m, Radius – 375cm 11a. 5m and 250cm, 13.5cm and 675mm, 94mm and 4.7cm, 17m and 850cm 12a. Radius – 2.25cm, Diameter – 4.5cm

Teaching Note: For questions 4, 8 and 12, measurements are dependent upon printer settings.

Varied Fluency <u>Circles</u>

Developing

1b. A

2b. Diameter – 10mm, Radius – 5mm

- 3b. 3m and 6m, 1m and 2m, 12m and
- 24m, 9m and 18m

4b. Radius – 1cm, Diameter – 2cm

Expected

5b. A 6b. Diameter – 19cm, Radius – 9.5cm 7b. 49.5m and 99m, 53.5m and 107m, 25.5m and 51m, 41.5m and 83m 8b. Radius – 1.5cm, Diameter – 3cm

Greater Depth

9b. A

10b. Radius – 450mm, Diameter – 0.9m 11b. 35cm and 700mm, 415mm and 83cm, 0.75m and 150cm, 19.5cm and 0.39m

12b. Radius – 1.75cm, Diameter – 3cm



Varied Fluency – Circles ANSWERS