Homework/Extension Step 4: Drawing Lines and Angles Accurately

Teaching note:

Please note that precise measurements are dependent upon printer settings.

National Curriculum Objectives:

Mathematics Year 5: (5G4c) Draw given angles, and measure them in degrees.

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Draw a line to meet another at a given angle. One line is horizontal and both are multiples of 5mm; angles are acute or obtuse and multiples of 5°.

Expected Draw two lines that meet at a given angle. One line is horizontal and both are multiples of 1mm; angles are acute or obtuse and multiples of 1°.

Greater Depth Draw two lines that meet at a given angle. Neither line is horizontal and both are multiples of 1mm; angles are acute or obtuse and multiples of 1°.

Questions 2, 5 and 8 (Varied Fluency)

Developing Draw lines and angles to represent a given journey. One horizontal line provided. Lines are multiples of 5mm; angles are acute or obtuse and multiples of 5°. Expected Draw lines and angles to represent a given journey. One horizontal line provided. Lines are multiples of 1mm; angles are acute or obtuse and multiples of 1°. Greater Depth Draw lines and angles to represent a given journey. No lines provided. Lines are multiples of 1mm; angles are acute or obtuse and multiples of 1°.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Join dots to create a pair of intersecting lines at a given angle. One horizontal line provided. Lines are multiples of 5mm; angles are acute or obtuse and multiples of 5°. **Expected** Join dots to create a pair of intersecting lines at a given angle. One diagonal line provided. Lines are multiples of 1mm; angles are acute or obtuse and multiples of 1°. **Greater Depth** Join dots to create a pair of intersecting lines at a given angle. No lines provided. Lines are multiples of 1 mm; angles are acute or obtuse and multiples of 1°.

More <u>Year 5 Properties of Shapes</u> resources.

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Homework/Extension – Drawing Lines and Angles Accurately – Teaching Information



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Homework/Extension – Drawing Lines and Angles Accurately – Year 5 Developing

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Homework/Extension – Drawing Lines and Angles Accurately – Year 5 Expected

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Homework/Extension - Drawing Lines and Angles Accurately - Year 5 Greater Depth

Homework/Extension Drawing Lines and Angles Accurately

Teaching note:

The answers below are provided as an example. Teachers will need to measure angles and lines when marking. Accept angles and lines of various orientation.



3. B and D; 6.5cm







9. B and E, C and D; 5.3cm each



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Homework/Extension – Drawing Lines and Angles Accurately ANSWERS