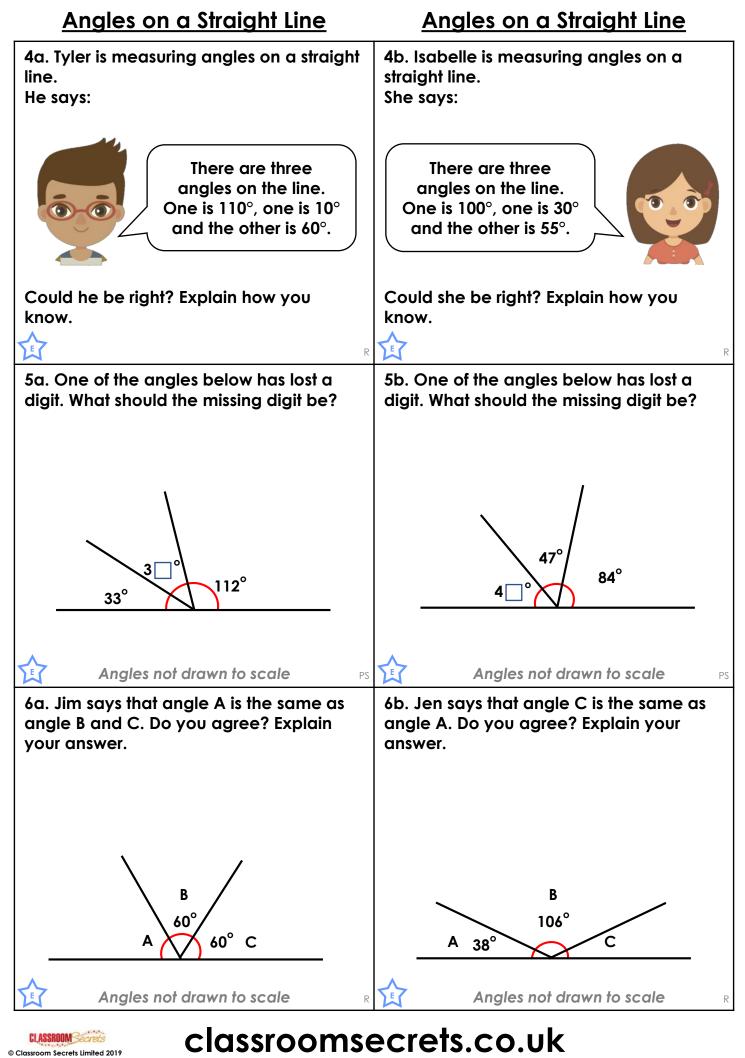
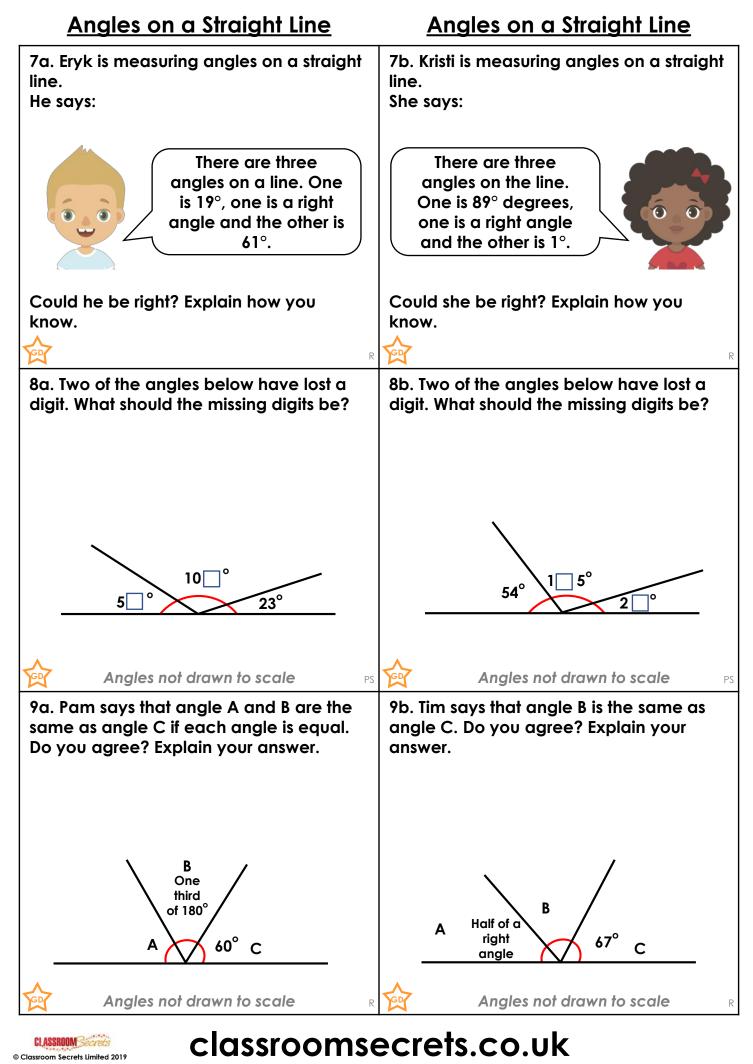


Reasoning and Problem Solving – Angles on a Straight Line – Year 5 Developing



Reasoning and Problem Solving – Angles on a Straight Line – Year 5 Expected



Reasoning and Problem Solving – Angles on a Straight Line – Year 5 Greater Depth

Developing

1a. James cannot be right as his angles only total 170°.

2a. The missing digit is a 1.
3a. John is correct as both angles A and B are 90° angles. Two 90° angles makes 180°.

Expected

4a. Tyler could be right as his angles total 180°.

5a. The missing digit is a 5. 6a. Jim is correct as $60^{\circ} + 60^{\circ} = 120^{\circ}$. $180^{\circ} - 120^{\circ} = 60^{\circ}$ which is the same as angle B and C.

Greater Depth

7a. Eryk cannot be right as his angles total 170°.

8a. The missing digits are a 4 and a 3. 9a. Pam is correct as one third of $180^\circ = 60^\circ$ so $60^\circ + 60^\circ = 120^\circ$. $180^\circ - 120^\circ = 60^\circ$ which is the same as angle C at 60° . <u>Reasoning and Problem Solving</u> <u>Angles on a Straight Line</u>

<u>Developing</u>

1b. Harper could be right as her angles total 180°.2b. The missing digit is a 5.

3b. Theresa is incorrect as $180^{\circ} - 75^{\circ} = 105^{\circ}$ so angle A must be 105° which is different to angle B at 75° .

Expected

4b. Isabelle cannot be right as her angles total 185°.

5b. The missing digit is a 9. 6b. Jen is incorrect as $106^{\circ} + 38^{\circ} = 144$. $180^{\circ} - 144^{\circ} = 36^{\circ}$ which is different to angle A at 38° .

Greater Depth

7b. Kristi could be right as her angles total 180°.

8b. The missing digits are a 0 and a 1. 9b. Tim is incorrect as half of a right angle is 45° so $45^{\circ} + 67^{\circ} = 112^{\circ}$. $180^{\circ} - 112^{\circ} = 68^{\circ}$ which is different to angle C at 67° .

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Reasoning and Problem Solving – Angles on a Straight Line ANSWERS