

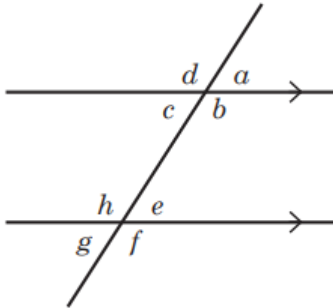
Summer Term Maths Year 10

Lines and angles

Day
2

Week 3

1 The diagram shows some angles.



- (a) Write down 2 angles that are vertically opposite. **a/d, c/a, h/f and e/g**
- (b) Write down 2 angles that are corresponding. **a/e, b/f, d/h and c/g**
- (c) What is the sum of b and e? **180°**
- (d) Complete the sentences
angle b is alternate to **angle h**
angle c is alternate to **angle e**

2 Find the missing marked angles.
For each one write down your reason.

- (a) **73° alternate angles are equal**
- (b) **108° corresponding are equal**
- (c) **89° co-interior sum to 180°**
- (d) **73° corresponding angles are equal**

- 3 (a) Draw a diagram that shows 2 angles that are corresponding. **Various answers**
- (b) Draw a diagram that shows 2 angles that are alternate. **Various answers**

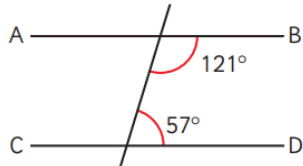
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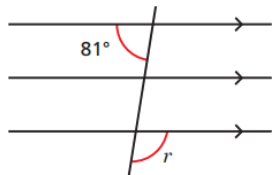
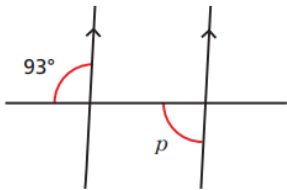
- 4** Are the two lines segments AB and CD parallel? Explain your reasoning. **No as the co-interior angles do not sum to 180**



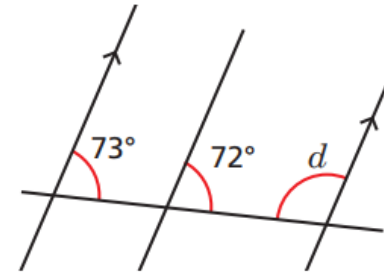
- 5** Work out the missing labelled angles. Give reasons for your answers.

(a) **87°**

(b) **99°**



- 6** Mo says that $d = 108^\circ$ as $72^\circ + 108^\circ = 180^\circ$



- Is Mo correct? Explain your answer. **No as angle d is $180 - 73 = 107$**

- 7**

Work out the size of angle x. **60°**

