

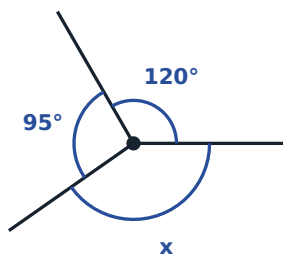
Name _____

Date _____

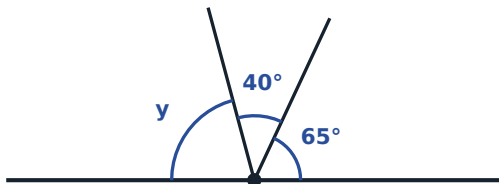
Stage 7 End-of-unit test 5

27 questions · 44 marks · calculators are not allowed · allow about 45 minutes

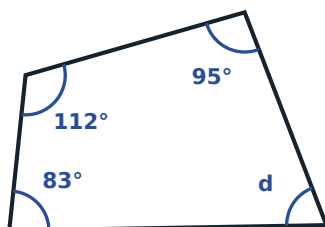
- 1 Work out angle **x**, in degrees. [2]



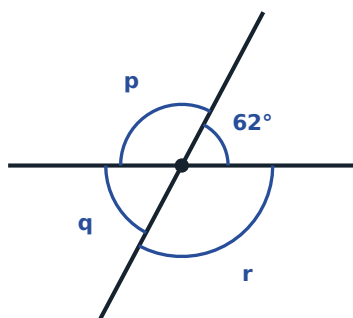
- 2 Work out angle **y**, in degrees. [2]



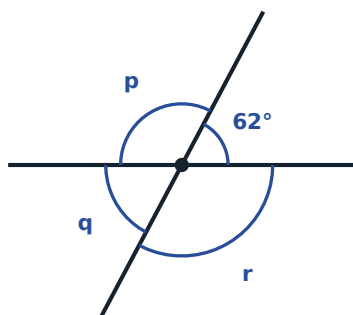
- 3 Work out angle **d**, in degrees. [2]



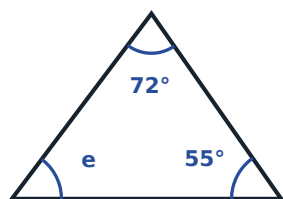
- 4 Two straight lines cross. Work out angle q , in degrees. [1]



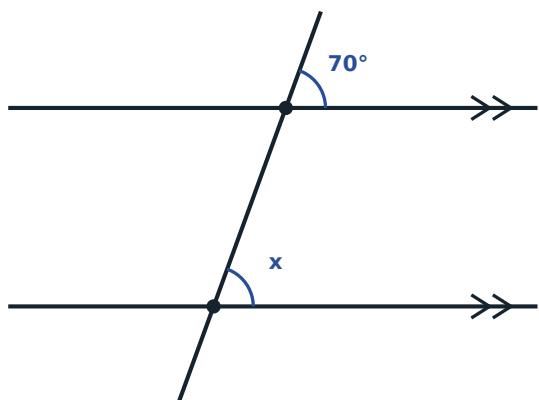
- 5 Using the same diagram, work out angle p , in degrees. [2]



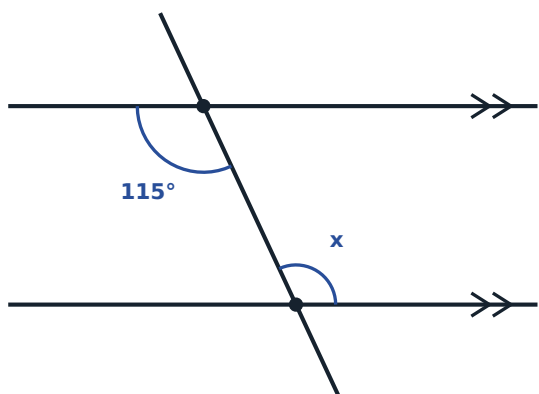
- 6 Work out angle e in this triangle, in degrees. [2]



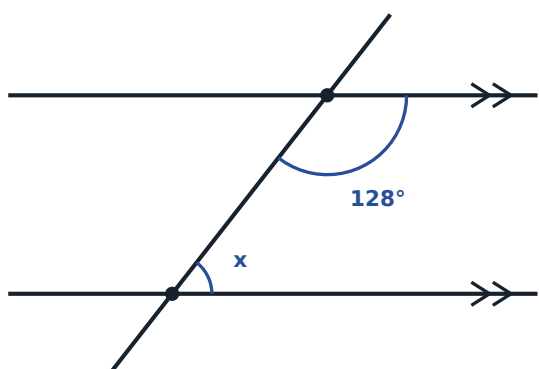
- 7 The lines with arrows are parallel. Work out angle x , in degrees. [2]



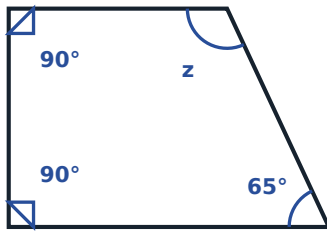
- 8 The lines with arrows are parallel. Work out angle x , in degrees. [2]



- 9 The lines with arrows are parallel. Work out angle x , in degrees. [2]



- 10** Work out angle z , in degrees. [2]



- _____
- 11** What do the angles around a point add up to, in degrees? [1]
- _____
- 12** What do the angles of a quadrilateral add up to, in degrees? [1]
- _____
- 13** Why do the angles of a quadrilateral total 360° ? [2]
- ☐ It has four sides
 - ☐ It splits into two triangles, each with 180°
 - ☐ A full turn is 360°
 - ☐ All its angles are 90°
- 14** Two angles at a point are equal and the third is 140° . How big is each equal angle, in degrees? [2]
- _____
- 15** A quadrilateral has angles x° , $2x^\circ$, $3x^\circ$ and $4x^\circ$. What is x ? [2]
- _____
- 16** When two straight lines cross, the angles opposite each other are ... [1]
- ☐ equal
 - ☐ supplementary
 - ☐ always 90°
 - ☐ unrelated
- 17** Two lines cross so that one angle is 90° . How big is each of the other three, in degrees? [1]
- _____
- 18** On parallel lines cut by a transversal, alternate angles are ... [1]
- ☐ equal
 - ☐ supplementary
 - ☐ always 90°
 - ☐ unrelated
- 19** Two lines cross. One angle is $(2x + 10)^\circ$ and the angle vertically opposite is 70° . What is x ? [2]
- _____

- 20** Which quadrilateral has exactly one pair of parallel sides? [1]

- 21** Which quadrilateral has four equal sides but need not have right angles? [1]

- 22** Is every square also a rectangle? [1]
☐ Yes
☐ No
- 23** A parallelogram has one angle of 65° . What is the angle next to it, in degrees? [2]

- 24** How is a right angle marked on a diagram? [1]
☐ With an arc
☐ With a small square
☐ With an arrow
☐ With a dot
- 25** A fan has 8 equally spaced blades meeting at the centre. What is the angle between two neighbouring blades, in degrees? [2]

- 26** A pie chart has three sectors. Two are 90° and 144° . What is the third, in degrees? [2]

- 27** A clock hand turns from 12 to 5. Through how many degrees has it turned? [2]

END OF TEST