**End of Unit Test** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Lines, Angles and Shapes - FOUNDATION**

**1.** (a) The diagram shows a regular octagon. Not drawn

accurately. The base line of the octagon is extended. Work out the size of angle *y*.

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………………………………………………………………..

Answer …………………………………………………°

**(2)**

(b) *ABCD* is a parallelogram. *BD* is a diagonal. Not drawn accurately. Work out the size of angle *w*.

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Answer …………………………………………………°

 **(3)**

**(Total 5 marks)**

**2.** Three triangles are shown on the centimetre grid.

(a) Which triangle is **not** isosceles?

Answer ...............................

**(1)**

(b) Work out the area of the triangle with the greatest area. State the units of your answer.

 …………………………………………………………………………………………………

Answer ......................................................................

**(3)**

**(Total 4 marks)**

**3.** (a) Work out the size of angle *x.* Not drawn accurately.

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 …………………………………………………………………

 …………………………………………………………………

 Answer …………………………………………………°

**(2)**

(b) Not drawn accurately. Give a reason why, if drawn accurately, *ABC* would be a straight line.

 …………………………………

 …………………………………

 …………………………………………………………………………………………………

 **(1)**

**(Total 3 marks)**

**4.**



(a) Which angles are vertically opposite? Circle your answer

*a* and *b*                  *a* and *c*                  *b* and *c*                  *b* and *d*                  *c* and *d*

**(1)**

(b) Which angles are alternate? Circle your answer

*a* and *b*                  *a* and *c*                  *b* and *c*                  *b* and *d*                  *c* and *d*

**(1)**

(c) Which angles are corresponding? Circle your answer

*a* and *b*                  *a* and *c*                  *b* and *c*                  *b* and *d*                  *c* and *d*

**(1)**

**(Total 3 marks)**

**5.** *AD* is parallel to *BC*. *AE* = *DE.* Not drawn accurately. Work out the size of angle *BAE*.

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 ……………………………………………………

 ……………………………………………………

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 ……………………………………………………

 ……………………………………………………

Answer …………………………………………………°

 **(Total 3 marks)**

**6.** (a) These triangles are congruent. Not drawn accurately



State the condition they satisfy.

Answer ......................................................................

**(1)**

(b) These triangles are congruent. Not drawn accurately



State the condition they satisfy.

Answer ......................................................................

**(1)**

**(Total 2 marks)**

**(Total for test = 20 marks)**