**Class 5 – Homework – Alnwick – 16.1.23**

**Q1.**

Here is an **isosceles** triangle inside a rectangle.

**Not to scale**

Calculate the sizes of angles ***x*** and ***y***.

**Q2.**

Calculate the size of angles ***a*** and ***b*** in this diagram.



1 mark

1 mark

**Q3.**

Anna has four **different** triangles.

Complete the table to show the size of the angles in each triangle.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Type of triangle** | **Angle 1** | **Angle 2** | **Angle 3** |
|  | Isosceles | 90° |   |   |
|   | Right-angled | 80° |   |   |
|   | Isosceles | 70° |   |   |
|   | Isosceles | 70° |   |   |

2 marks

**Q4.**

The diagram shows three **identical** isosceles triangles.

What are the sizes of angles *r* and *t*?

2 marks

**Q5.**

Calculate the size of angle ***p*** in the diagram.

Do **not** use a protractor (angle measurer).

**Q6.**

The diagram shows an isosceles triangle and a square on a straight line.

Calculate angle *α*.

**Q7.**

**Not to scale**

Calculate the size of angle ***y*** in this diagram.

Do **not** use a protractor (angle measurer).

1 mark

**Q8.**

Here is an isosceles triangle.

Calculate the size of angle *x*.

Do **not** use a protractor (angle measurer).

1 mark