

Subject: Mathematics

Second Semester

Name:

Unit (8): Gemoerty

Worksheet (4)

Grade 6 CS

Angles to 90° (complementary angles)

Remember that the right angle is equal to 90°

Exercise (1): Work out the missing angles (the first one has been done for you)



Angles on a straight line 180° (supplementary angles)

Remember that the straight angle is equal to 180°

Exercise (2): Work out the missing angles (the first one has been done for you)







3)





6)



Angles around a point

Remember that the angles around the point add up to 360°

Exercise (3): Work out the missing angles (the first one has been done for you)



Angles in a triangle.

Remember that the angles in a triangle add up to 180°

The types of triangles:



- An **isosceles triangle** will have two angles the same size.
- In an **equilateral triangle**, all angles will be **60**°.
- A **right-angled triangle** will have one angle that is **90**°, which means the other two angles will have a total of 90°.
- A scalene triangle will have all angles of a different size.

Exercise (4): Work out the missing angles.

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2)



C 46° A

В

m∠B = _____







m∠K = _____

m∠U = _____



Angles in Quadrilaterals.

Remember that the angles in quadrilaterals add up to 360°

Exercise (5): Work out the missing angles (the first one has been done for you)



Vertically opposite angles.

Vertically opposite angles are the angles formed **opposite** each other when two lines intersect. Vertically opposite angles <u>are always equal.</u>



Exercise (6): Work out the missing angles (the first one has been done for you)



Corresponding and alternate angles

If we have **two parallel lines** and have a third line that crosses them as in the picture below - the crossing line is called a **transversal**

When a transversal intersects with two parallel lines eight angles are produced.



Alternate angles

When the angels are **both interior** and **opposite** to each other **equal** (alternate)

Exercise (7): Work out the missing angles (the first two have been done for you)







____y are



x =













8)

6)



x =



10)







c =°

d =-

0























¥a=-4b=-













More examples about angles:

Answer the following question.

1) Find the value of *x*.







5) Find the missing angles and give the reason.







