Name:

## GCSE (1-9)

## Angles

## Instructions

- Use black ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.


## Information

- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.


## Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end

1 Here are four angles A, B , C and D.


(a) Measure the size of angle C .
(b) Match the angle mathematical name to the angle.

| Mathematical Name | Angle |
| :---: | :---: |
| Acute Angle |  |
| Obtuse Angle |  |
| Right Angle |  |
| Reflex Angle |  |

2 In the space below draw an angle of $60^{\circ}$
Label the angle $A$.

3 In the space below draw an angle of $110^{\circ}$
Label the angle $B$.

## Diagrams are NOT accurately drawn, unless otherwise indicated.

$4 \quad A B C$ is a straight line. Work out the size of the angle marked $x$.

$\circ$

5 Work out the size of the angle marked $x$.

$6 \quad A B$ and $B C$ are perpendicular lines. Work out the size of the angle marked $x$.

$7 \quad A B C$ is an isosceles triangle Work out the size of the angle marked $x$.


(a) Work out the size of the angle marked $x$.
(b) Give a reason for your answer.

9 The diagram shows a square $A B D E$ and an equilateral triangle $B C D$.

(a) Write down the size of angle $A B D$
(b) Write down the size of angle $B C D$
(c) Find the size of angle $A D C$

(a) Work out the size of the angle marked $x$.
(b) Give a reason for your answer.
$\qquad$
$\qquad$

11

(a) Work out the size of the angle $A B C$.
(b) Give a reason for your answer.
$\qquad$
$\qquad$
$12 A B C$ is a straight line. Work out the size of the angle $B D C$.


13

(a) Work out the size of the angle marked $x$.
$\qquad$
(b) Work out the size of the angle marked $y$.
(c) Give reasons for your answer.
$\qquad$
$\qquad$
$\qquad$
$14 \quad A B C$ is a straight line.


Show that $A B D$ is an isosceles triangle

