

How many degrees does the hour hand on a clock turn between 3pm and 9pm?

| 180 | $\circ$ |
| :---: | :---: |

1 mark

2 Measure the angle below using a protractor. Give your answer in degrees.


1 mark

Right
Use the words above to write the correct name for each angle.

$131+90=221$
$360-221=139$

Angles around a point add to 360 degrees

$$
x=139 \quad \circ
$$

1 mark

$$
x=43
$$


$50+96=146$
$180-146=34$

$$
x=34
$$

1 mark

8 Find the size of the missing angle in this diagram.


180-46=134
$134 \div 2=67$


The angles at the base of an isosceles triangle are equal

$$
x=67 \quad \circ
$$

10 Two angles in a triangle are $30^{\circ}$ and $120^{\circ}$
Theo says, "It is an equilateral triangle".

## Explain why Theo is not correct.

In an equilateral triangle all the angles are they same, they are all 60 degrees.

Two angles in a triangle are $50^{\circ}$ and $70^{\circ}$
$50+70=120$
Harriet says, "It is an isosceles triangle".
180-120 = 60
Explain why Harriet is not correct.

## The third angle would be 60 degrees.

In an isosceles triangle two angles are equal.

12 Harper says, "If you add the the size of an acute angle to the size of an obtuse angle, you always get a reflex angle".

## Explain why Harper is not correct.

A reflex angle is over 180 degrees.
If you add an acute angle to an obtuse angle the answer could be less than 180 degrees.

For example: $30+100=130$

