

Examination Practice Questions

You should have:

A ruler, protractor, compasses, a pen, pencil, eraser, calculator.
For some questions, you may need tracing paper.

Instructions

- Use **black** ink or ball-point pen.
- Answer the questions in the spaces provided – *there may be more space than you need*.
- **Calculators may be used.**

Information

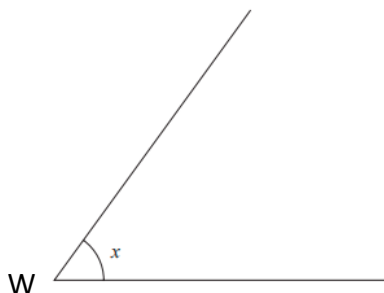
- The marks for each question are shown in brackets.
- Use the number of marks for each question as a guide as to how much time to spend on each question. As a rough guide, you can multiply the number of marks by 1.2 to see how many minutes you should spend on a question.
- Questions been carefully compiled from or modelled on a variety of past papers and will generally get more challenging as the document progresses. Some of the later questions will go beyond the core grade level for this topic.

Advice

- Read each question carefully before you start to answer it.
- Don't forget to have fun.
- Check your answers at the end.

Q1.

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Write down the mathematical name of this type of angle.

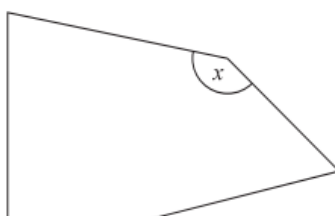
.....

(1 mark)

Q2.

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Here is a pentagon.



acute	obtuse	reflex	right
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Write down the word from the box that describes the angle marked x .

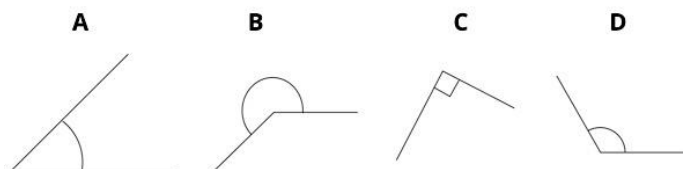
.....

(1 mark)

Q3.

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Which angle below is obtuse?



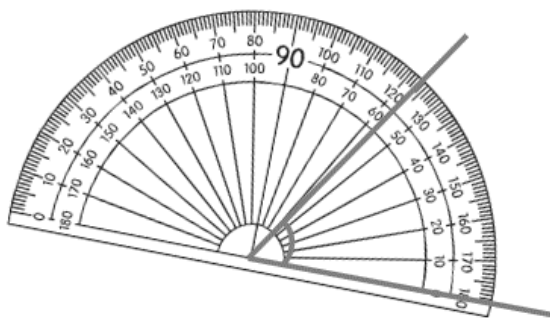
.....

(1 mark)

Q4.

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The diagram shows an angle.



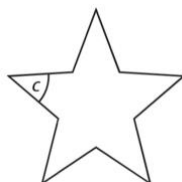
Write down the mathematical name of this type of angle.

.....

(1 mark)

Q5.

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Write down the mathematical name of angle c.

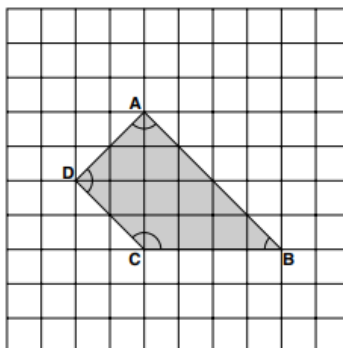
.....

(1 mark)

Q6.

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Here is a shape on a square grid. Next to each statement write True or False.



Angle C is an obtuse angle.

Angle D is an acute angle.

Line AD is parallel to line BC.

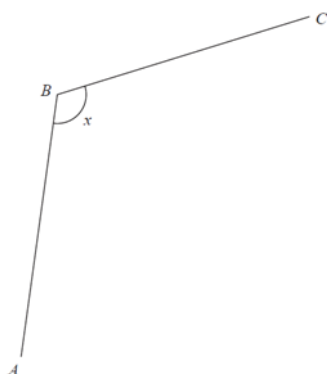
Line AB is perpendicular to line AD.

(1 mark)

Q7.

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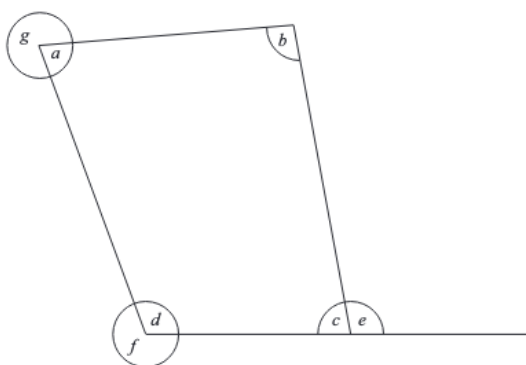
Write the word that best describes angle x in the diagram.



.....
(1 mark)

Q8.

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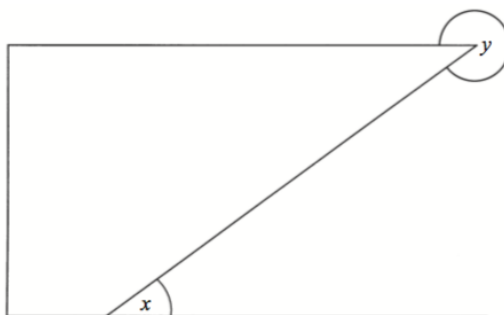
From the diagram above write down the letter of an angle which is acute.

.....
(1 mark)

Q9.

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What type of angle is shown by the letter y ?



.....
(1 mark)

Q10.

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One of the angles below is a reflex angle.
Circle the correct answer.

90°

135°

180°

225°

(1 mark)

Q11.

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What type of angle is an angle of 181° ?

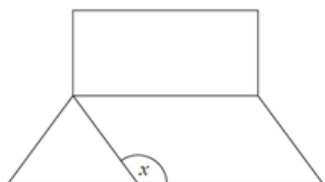
.....

(1 mark)

Q12.

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The diagram below shows a rectangle, a parallelogram and a triangle.



What type of angle is the angle marked x ?

.....

(1 mark)

Q13.

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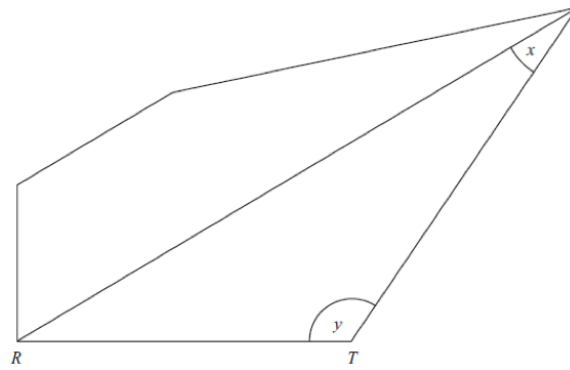
Select the type of angle marked between the minute hand and the hour hand.

.....

(1 mark)

Q14.

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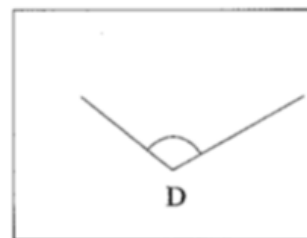
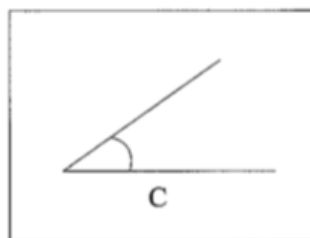
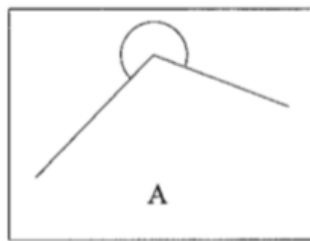
What type of angle is angle x ?

.....

(1 mark)

Q15.

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One of the four angles marked in the diagrams above is an obtuse angle.

Write down the letter of the diagram in which the obtuse angle is marked.

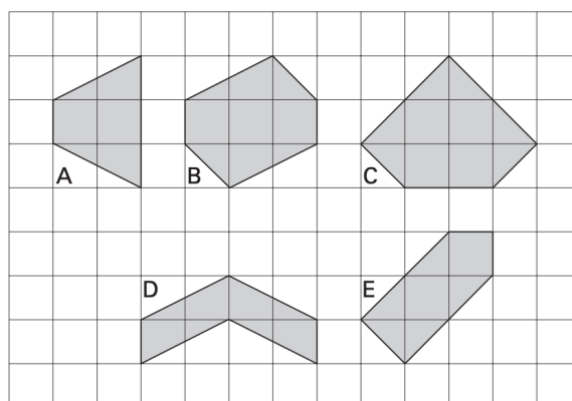
.....

(1 mark)

Q16.

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Here are some shaded shapes on a square grid.



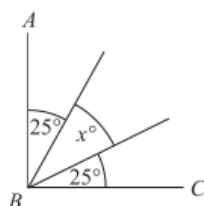
Choose the letters of the **two** shapes which have right angles.

.....
(1 mark)

Q17.

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AB and BC are perpendicular lines.



Find the value of x .

.....
(1 mark)

Q18.

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Kirsty says,

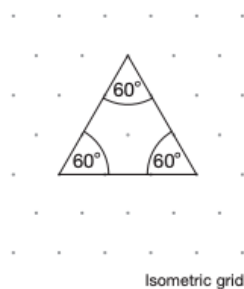


When you double the size of an acute angle,
you always get an obtuse angle.

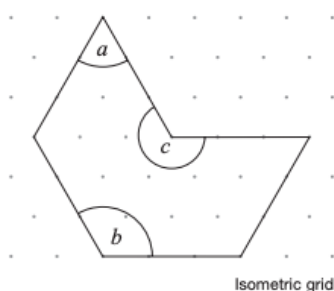
Is Kirsty correct?

.....
(1 mark)

Look at the equilateral triangle.
Each angle in an equilateral triangle is 60°



Now look at this shape.



Work out the sizes of angles a , b and c .

$a = \dots\dots\dots$

$b = \dots\dots\dots$

$c = \dots\dots\dots$

(1 mark)

Some triangles have three acute angles.

Is this statement true or false?

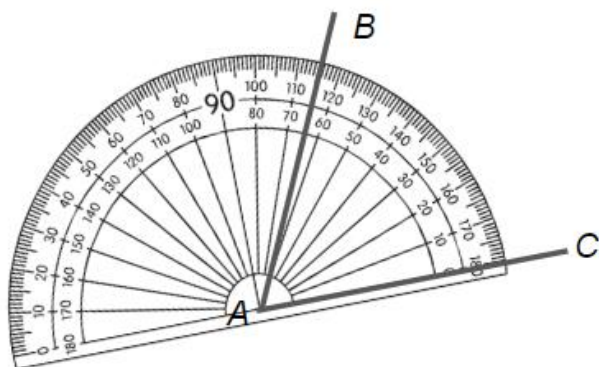
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(1 mark)

Q21.

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Measure $\angle BAC$.

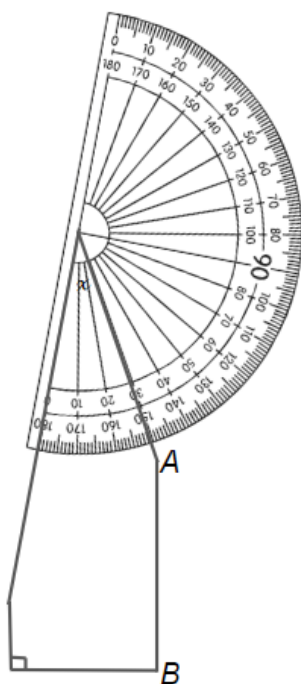


.....
(1 mark)

Q22.

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The diagram shows a 5-sided polygon.



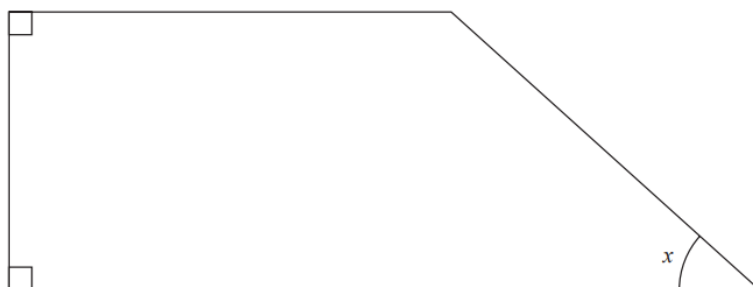
Measure the size of the angle marked x .

.....
(1 mark)

Q23.

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Here is a quadrilateral.



Measure the size of the angle marked x .

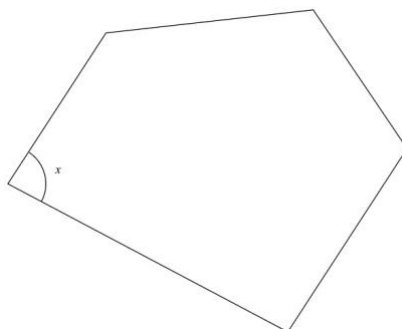
.....

(1 mark)

Q24.

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Here is a polygon with five sides.



Measure the size of the angle marked x .

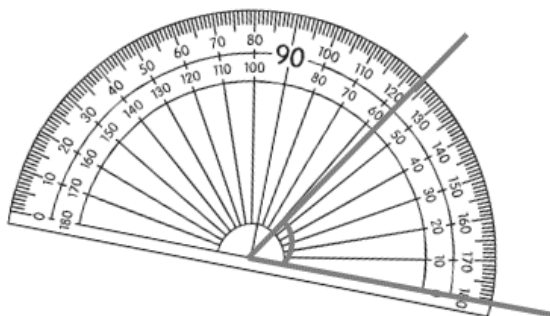
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(1 mark)

Q25.

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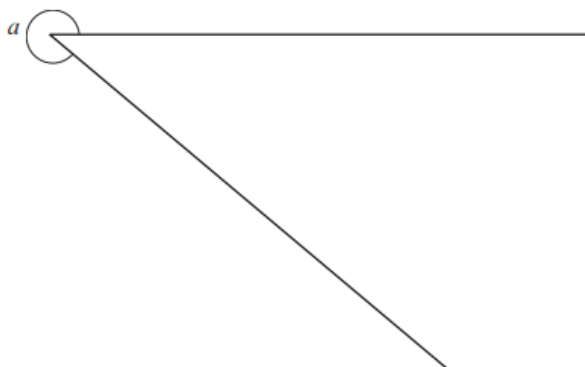
The diagram shows an angle. Measure the angle.



.....

(1 mark)

Using a protractor, find the size of angle a .



.....

(1 mark)

QUESTIONS FROM MATHEMATICAL COMPETITIONS

Q1.

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How many right angles are there in this diagram?

