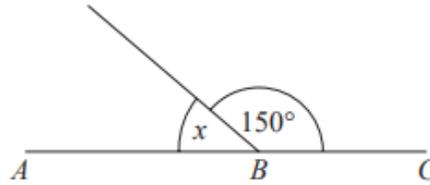


ANGLES

Pearson Edexcel - Thursday 4 June 2020 - Paper 2 (Calculator) Foundation Tier

1.

8



ABC is a straight line.

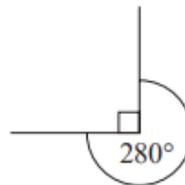
(a) (i) Work out the size of the angle marked x .

.....
(1)

(ii) Give a reason for your answer.

.....
.....
.....
(1)

The diagram below is wrong.



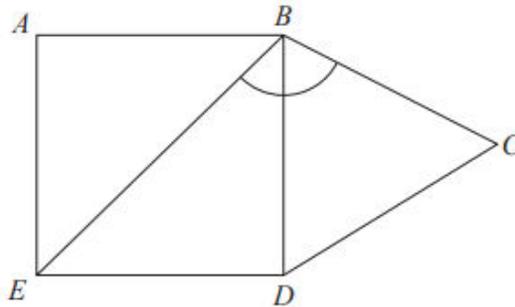
(b) Explain why.

.....
.....
.....
(1)

(Total for Question 8 is 3 marks)

2.

20 The diagram shows a square $ABDE$ and an equilateral triangle BCD .

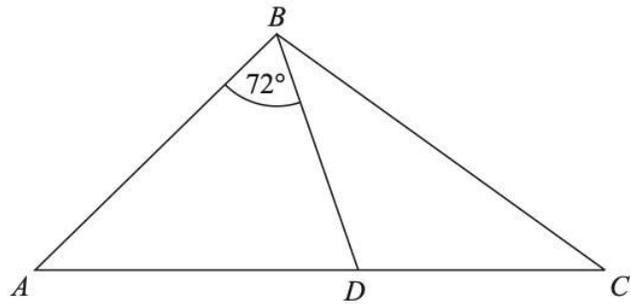


Work out the size of angle EBC .

.....
(Total for Question 20 is 2 marks)

3.

29



ABC is an isosceles triangle with $BA = BC$.

D lies on AC .

ABD is an isosceles triangle with $AB = AD$.

Angle $ABD = 72^\circ$

Show that the triangle BCD is isosceles.

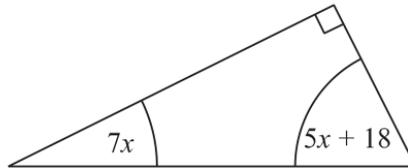
You must give a reason for each stage of your working.

(Total for Question 29 is 5 marks)

Pearson Edexcel – Specimen 1 - Paper 1 (Non-Calculator) Foundation Tier

4.

20 The diagram shows a right-angled triangle.



All the angles are in degrees.

Work out the size of the smallest angle of the triangle.

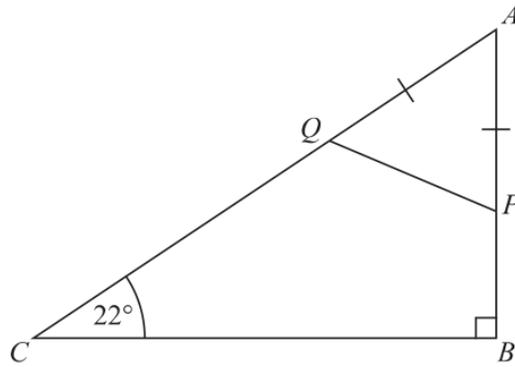
o

.....
(Total for Question 20 is 3 marks)

Pearson Edexcel – Specimen 1 - Paper 2 (Calculator) Foundation Tier

5.

17 ABC is a right-angled triangle.



P is a point on AB .

Q is a point on AC .

$AP = AQ$.

Work out the size of angle AQP .

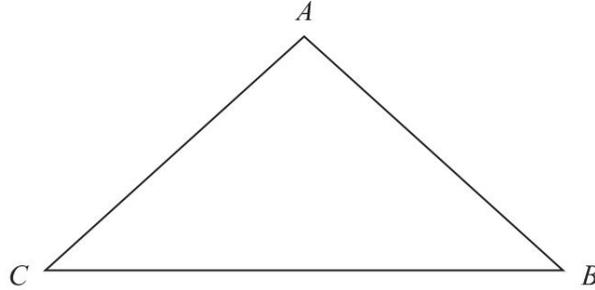
You must give a reason for each stage of your working.

(Total for Question 17 is 4 marks)

Pearson Edexcel – Specimen 1 - Paper 3 (Calculator) Foundation Tier

6.

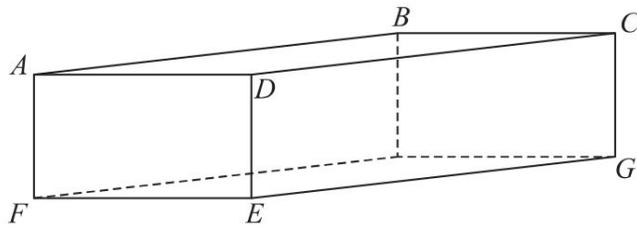
14 Here is a triangle ABC .



(a) Mark, with the letter y , the angle CBA .

(1)

Here is a cuboid.



Some of the vertices are labelled.

(b) Shade in the face $CDEG$.

(1)

(c) How many edges has a cuboid?

.....
(1)

(Total for Question 14 is 3 marks)

7.

17 ABC is an isosceles triangle.

When angle $A = 70^\circ$, there are 3 possible sizes of angle B .

(a) What are they?

.....^o ;^o ;^o
(3)

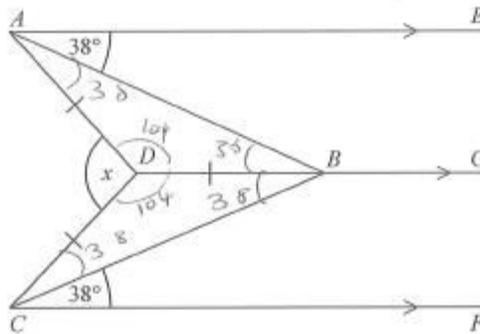
When angle $A = 120^\circ$, there is only one possible size of angle B .

(b) Explain why.

.....
.....
(1)

8.

23



AE , DBG and CF are parallel.

$DA = DB = DC$.

Angle $EAB = \text{angle } BCF = 38^\circ$

Work out the size of the angle marked x .

You must show your working.

DBC and $ABD = 38^\circ$ (Alternate angles are equal)

BAD and $BCD = 38^\circ$ (Angles at the base of an isosceles triangle are equal)

ADB and $BDC = 104^\circ$ (Angles in a triangle sum to 180°)

$x = 152$ Angles around a point sum to 360°
152°

(Total for Question 23 is 3 marks)

OCR – Tuesday 03 November 2020- Morning - Paper 1 (Calculator) Foundation Tier

9.

18 A triangle has sides of length 14.1 cm, 14.8 cm and 19.5 cm.

Is this a right-angled triangle?
Show how you decide.

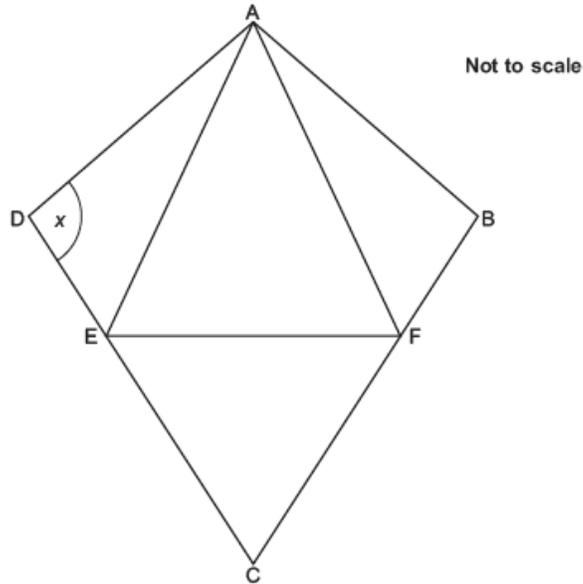
..... because

..... [4]

OCR Thursday 07 November 2019- Morning (Non-Calculator) Foundation Tier

10.

- 21 The diagram shows a kite, ABCD.
AFE and CEF are equilateral triangles.



- (a) Write down a mathematical name for quadrilateral AFCE.

(a) [1]

- (b) The ratio of angle DAE : angle EAF = 1 : 4.

Work out angle x.

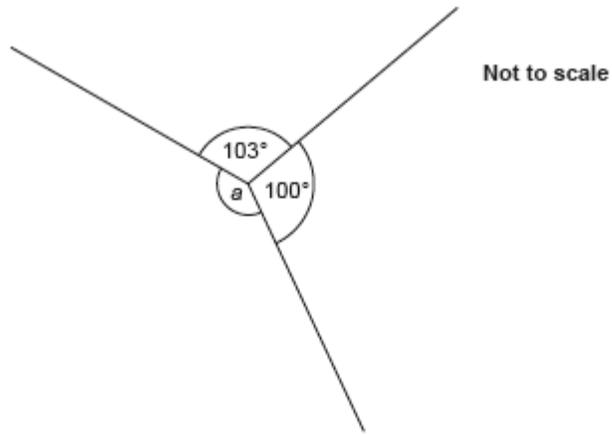
Write on the diagram the values of any other angles you use in your working.

(b) $x = \dots\dots\dots^\circ$ [4]

OCR Monday 11 November 2019 – Afternoon (Calculator) Foundation Tier

11.

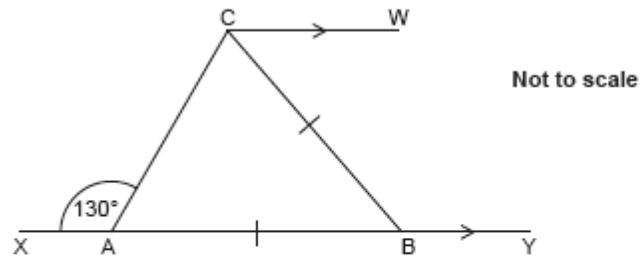
14 (a) Three lines meet at a point.



Work out the size of angle a .

(a) $a = \dots\dots\dots^\circ$ [2]

- (b) XY and CW are parallel lines.
AB = CB.
Angle CAX = 130° .



- (i) Complete this sentence.

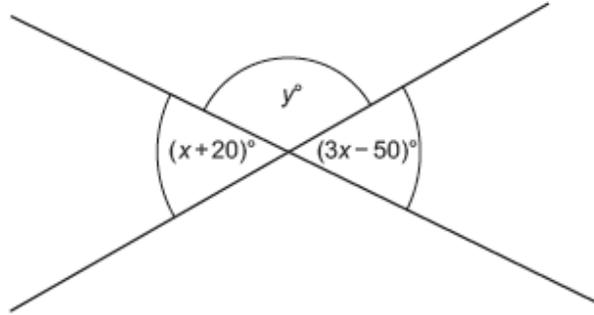
Angle CAB = 50° because

..... [1]

- (ii) Work out angle BCW.
Give a reason for each angle you work out.

12.

20 The diagram shows two intersecting straight lines.



Not to scale

Find the value of y .

$y = \dots\dots\dots$ [6]

OCR Tuesday 11 June 2019 – Morning (Calculator) Foundation Tier

13.

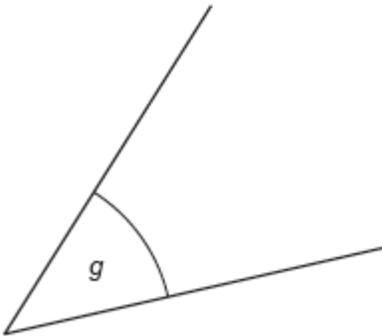
- 1 (a) Write down the mathematical name of this type of angle.
Choose from the list in the box.

acute	reflex	obtuse	right angle
-------	--------	--------	-------------



(a) [1]

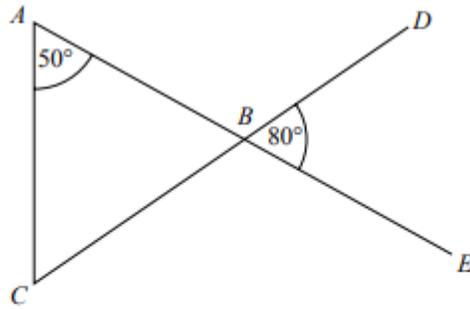
- (b) Measure angle *g*.



(b)° [1]

14.

13



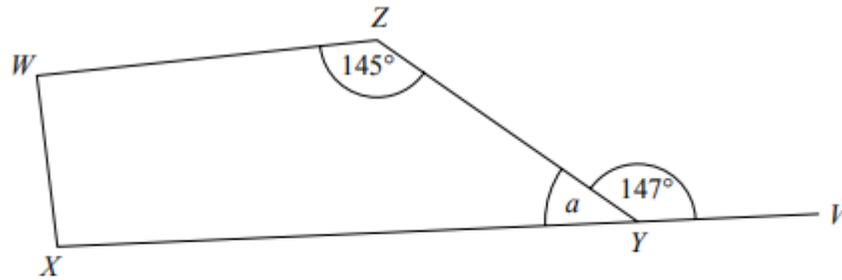
ABE and CBD are straight lines.

Show that triangle ABC is an isosceles triangle.
Give a reason for each stage of your working.

(Total for Question 13 is 4 marks)

15.

13



$WXYZ$ is a quadrilateral.
 XYV is a straight line.

(a) (i) Find the size of the angle marked a .

o

(ii) Give a reason for your answer.

(2)

Angle $ZWX =$ angle WXY

(b) Work out the size of angle ZWX .

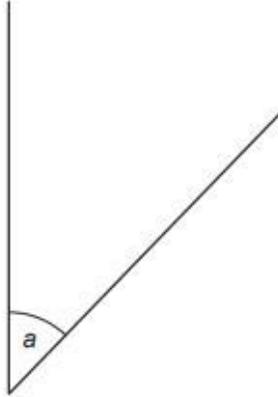
o

(2)

(Total for Question 13 is 4 marks)

16.

1 (a) (i) Measure angle a .



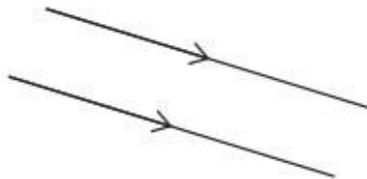
(a)(i) ° [1]

(ii) Write down the mathematical name of this type of angle.

(ii) [1]

(b) Choose one of these words to complete the following sentence.

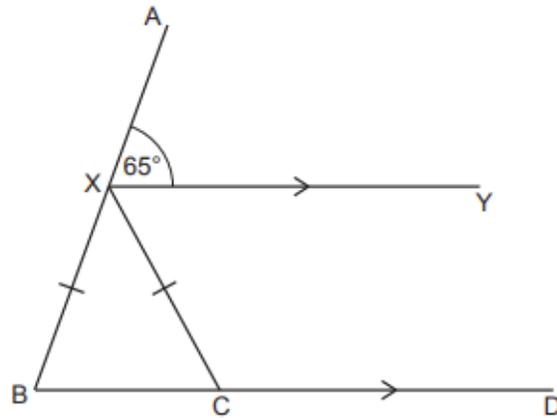
perpendicular vertical parallel horizontal



These are lines.

[1]

- 6 XY and BD are parallel lines.
 X is a point on AB and C is a point on BD.
 $XB = XC$.



Not to scale

- (a) Complete this sentence.

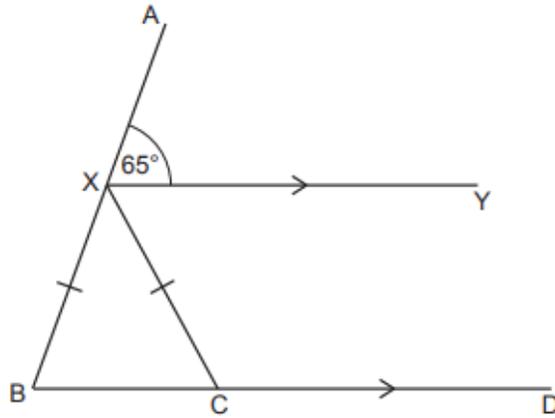
Angle $XBC = 65^\circ$ because [1]

- (b) Work out angle BXC .
 Give a reason for each angle you work out.

(b) $^\circ$ [4]

17.

- 6 XY and BD are parallel lines.
X is a point on AB and C is a point on BD.
 $XB = XC$.



Not to scale

- (a) Complete this sentence.

Angle XBC = 65° because [1]

- (b) Work out angle BXC.

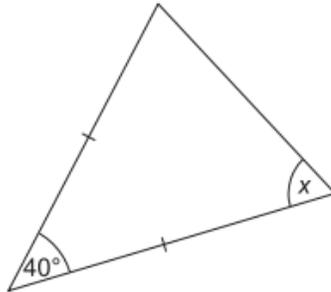
Give a reason for each angle you work out.

(b) $^\circ$ [4]

OCR Sample Question Paper 1 – Morning/Afternoon (Calculator) Foundation Tier

18.

8 The diagram shows a triangle.



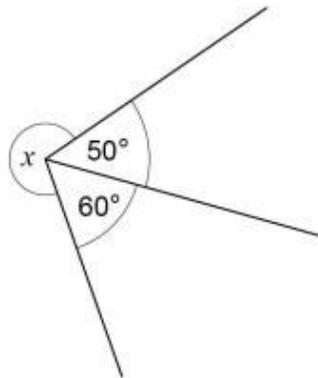
Not to scale

Find the value of x .
Give a reason for each step of your working.

$x = \dots\dots\dots^\circ$ [3]

19.

2



Not drawn
accurately

Circle the size of angle x .

[1 mark]

70°

110°

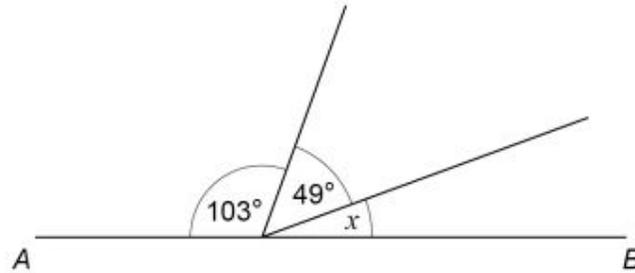
250°

270°

AQA Monday 8 June 2020 – Morning (Calculator) Foundation Tier

20.

11 AB is a straight line.



Not drawn accurately

Work out the size of angle x .

[2 marks]

Answer _____ degrees

AQA Tuesday 21 May 2019 – Morning (Non-Calculator) Foundation Tier

21.

1 Which type of angle is the largest?
Circle your answer.

[1 mark]

right

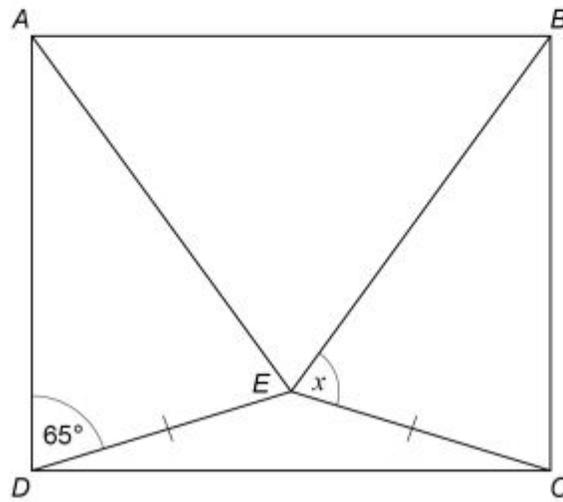
reflex

obtuse

acute

22.

- 10 In rectangle $ABCD$
triangle ABE is equilateral
triangle CDE is isosceles, with $CE = DE$



Not drawn accurately

Work out the size of angle x .

[4 marks]

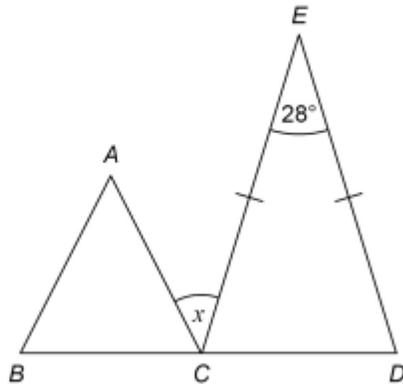
Answer _____ degrees

AQA Thursday 7 June 2018 – Morning (Calculator) Foundation Tier

23.

- 16 (a) BCD is a straight line.
Triangle ABC is equilateral.
 $CE = DE$

Not drawn
accurately

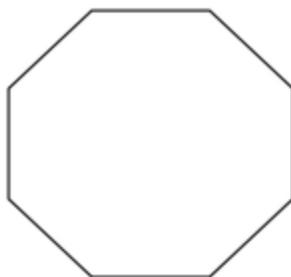


Work out the size of angle x .

[4 marks]

Answer _____ degrees

16 (b) Amba is working out the size of an **interior** angle of a regular octagon.



Not drawn
accurately

Her method is Interior angle = $360 \div 8$

Is her method correct?

Tick a box.

Yes

No

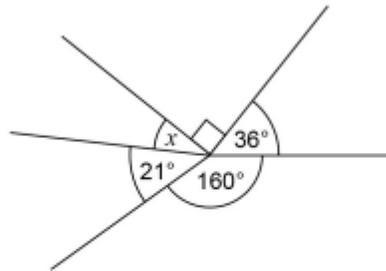
Give a reason for your answer.

[1 mark]

AQA Thursday 8 June 2017– Morning (Calculator) Foundation Tier

24.

13



Not drawn accurately

Work out the size of angle x .

[2 marks]

Answer _____ degrees