



Answer Sheet

Paper Name: Math-Angles

Paper ID: CUSTOM-MA-D04D882628

Full Name:



**YOU MUST ANSWER ON THIS SHEET. TAKE A PICTURE USING THE EXAM HAPPY APP
AFTERWARDS TO MARK YOUR WORK.**

How to answer:



A



B



C



D



E

How not to answer:



A



B



C



D



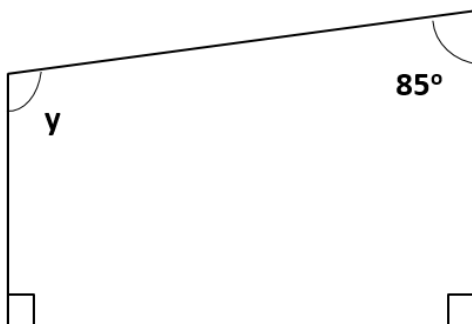
E

Use the **free Exam Happy app** to **view the average** for this paper and learn from **video solutions**

1					
	A	B	C	D	E
2					
	A	B	C	D	E
3					
	A	B	C	D	E
4					
	A	B	C	D	E
5					
	A	B	C	D	E
6					
	A	B	C	D	E
7					
	A	B	C	D	E
8					
	A	B	C	D	E
9					
	A	B	C	D	E
10					
	A	B	C	D	E

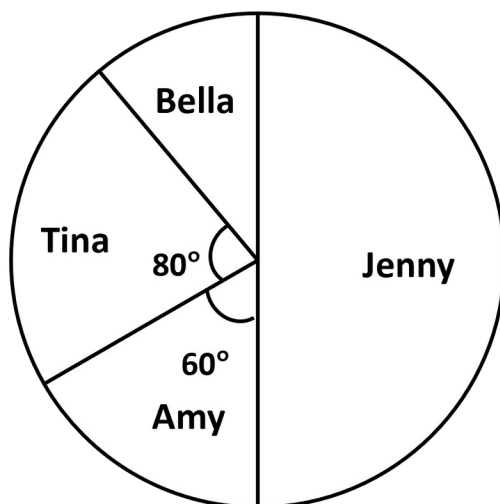
11					
	A	B	C	D	E
12					
	A	B	C	D	E
13					
	A	B	C	D	E
14					
	A	B	C	D	E
15					
	A	B	C	D	E
16					
	A	B	C	D	E
17					
	A	B	C	D	E
18					
	A	B	C	D	E
19					
	A	B	C	D	E
20					
	A	B	C	D	E

1. What is the value of y ?



- A** 85° **B** 95° **C** 90° **D** 100° **E** 105°

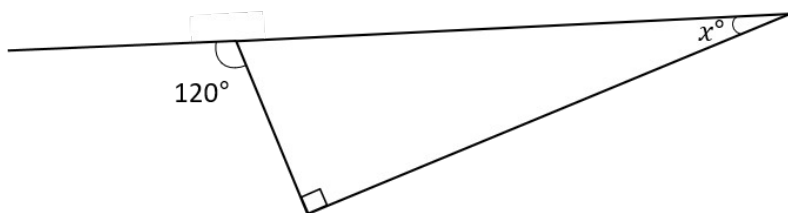
2. 90 children predicted who would win the girls drawing competition. The pie chart below shows their predictions.



How many children predicted that Bella would win?

- A** 45 **B** 20 **C** 10 **D** 25 **E** 15

3. Take a look at the right-angled triangle diagram below:

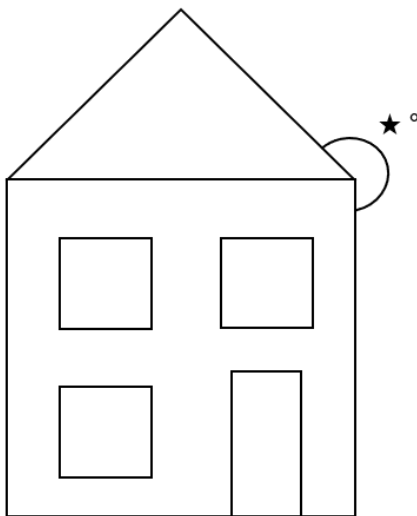


How large is the angle marked x° ?

- A 60° B 50° C 35° D 30° E 45°

4. The house below is square shaped, with an equilateral triangle shaped roof.

Not to scale



How large is the angle labelled $\star^\circ$?

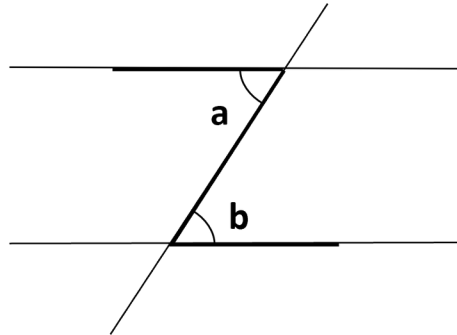
- A 270° B 105° C 180° D 90° E 210°

- 5.** Andy is facing South.
He rotates 225° of a complete circle in the clockwise direction.

In which direction is he facing now?

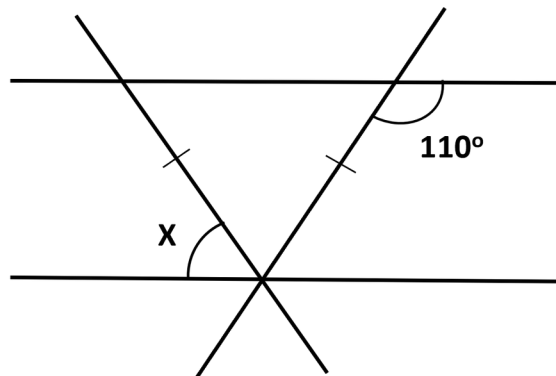
- A** South
- B** North
- C** West
- D** North East
- E** North West

- 6.** When two parallel lines are cut by a line, the angles within the Z shape are known as alternate angles.
For example:



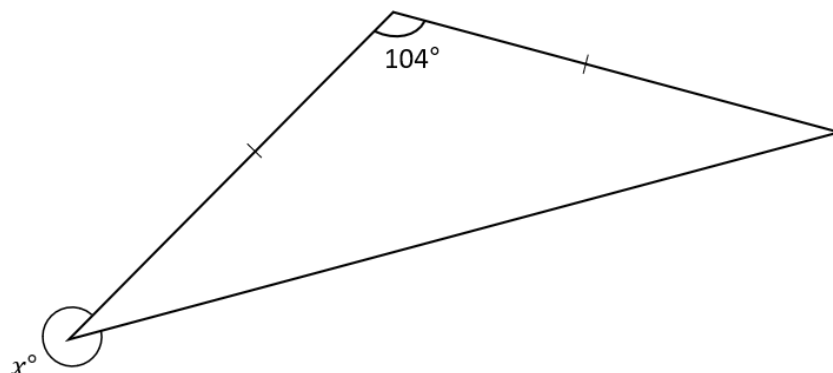
Note: Angle a = Angle b

If the triangle below is an isosceles triangle, find the value of angle x.



- A 60° B 50° C 70° D 80° E 40°

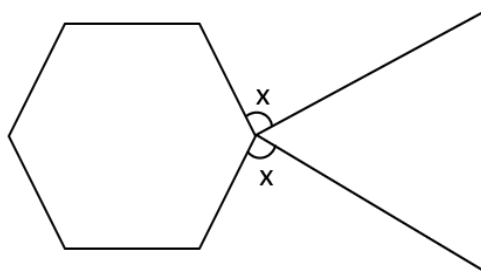
7. The triangle below is an isosceles triangle:



How large is the external angle labelled x° ?

- A 104° B 284° C 38° D 76° E 322°

8. A regular hexagon and an equilateral triangle meet each other, as shown below.



What is the size of angle x ?

- A 90° B 120° C 110° D 85° E 70°

- 9.** Both of the smaller angles of an isosceles triangle are 4 times smaller than the larger angle.

What is the angle of the larger angle?

A 20° **B** 30° **C** 80° **D** 40° **E** 120°

- 10.** Kieran adds together two acute angles and an obtuse angle.

Which of the following is the largest angle he could have made?

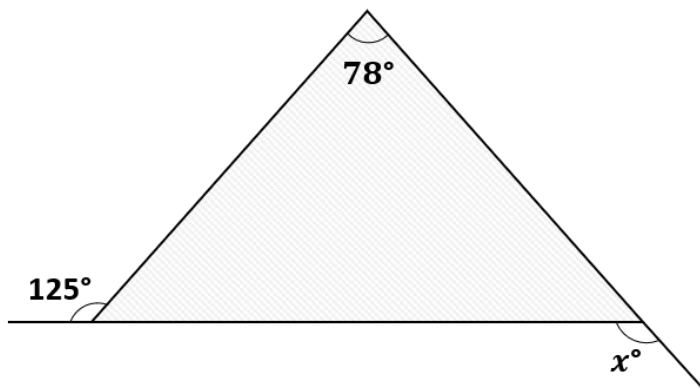
A 357° **B** 412° **C** 179° **D** 134° **E** 127°

- 11.** Consider the word HYDRODYNAMICS.

How many letters have the same mirror image when reflected vertically?

A 4 **B** 6 **C** 8 **D** 5 **E** 7

- 12.** What is the value of the angle labelled x° ?



A 143° **B** 55° **C** 137° **D** 133° **E** 47°

- 13.** Jeremy turns 60° clockwise, 80° anticlockwise, and finally 105° clockwise.

He wants to return to his original position by turning through the smallest possible angle.

What should the angle be?

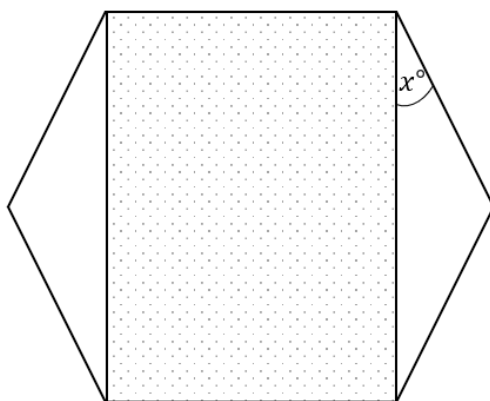
- A 85° clockwise
- B 85° anticlockwise
- C 245° anticlockwise
- D 125° anticlockwise
- E 60° clockwise

- 14.** An isosceles triangle has two base angles of size 36° each.

What is the difference between the third angle and the base angle?

- A 144°
- B 36°
- C 72°
- D 120°
- E 108°

- 15.** A rectangle is placed inside a regular hexagon:



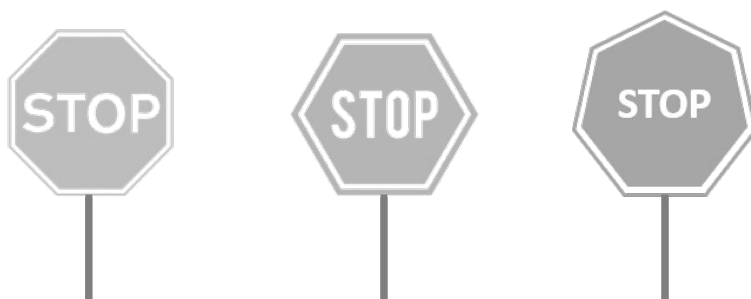
How large is the angle marked x° ?

- A 60°
- B 50°
- C 35°
- D 30°
- E 45°

- 16.** By what angle does the minute hand move when it goes from 10:23 to 10:42?

A 102° B 120° C 114° D 108° E 126°

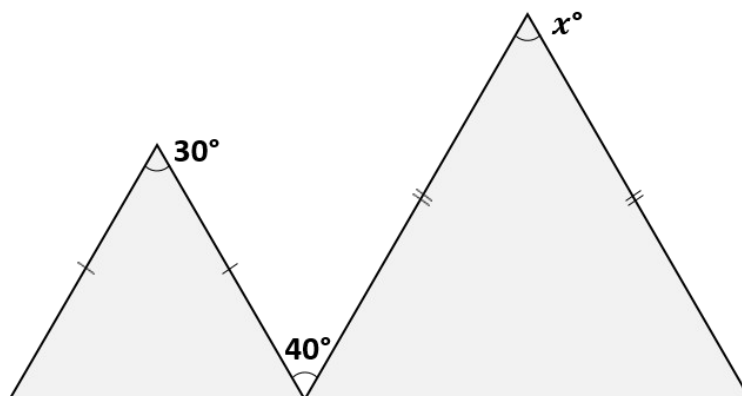
- 17.** A “STOP” sign was made in the shape of a regular polygon. The sum of all the angles in the sign sum to 1080° .



What is the name of the regular polygon?

A Pentagon B Decagon C Heptagon D Octagon E Hexagon

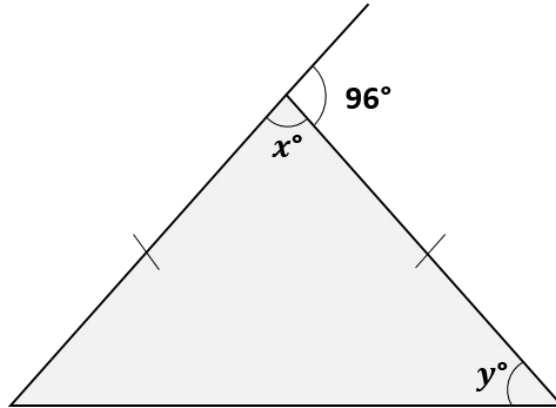
- 18.** The two triangles below are isosceles triangles.



What is the value of the angle labelled x° ?

A 30° B 60° C 50° D 100° E 45°

- 19.** The following triangle is an isosceles triangle.



What is the value of the angle labelled x° ?

- A 4° B 264° C 90° D 74° E 84°

- 20.** What is the value of the angle labelled y° ?

- A 62° B 48° C 74° D 96° E 60°