



## Question 1



The marked angle is:

- a. a revolution
  - b. a reflex angle
- 

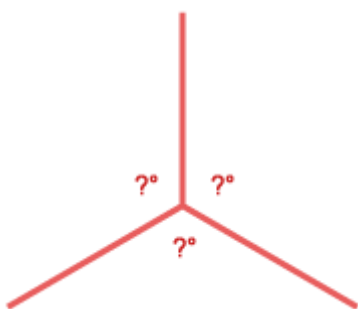
## Question 2



This rectangle has:

- a. four right angles
  - b. four obtuse angles
  - c. four acute angles
- 

## Question 3



Each of these angles is the same size.

What is the size of each angle?

°

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## Question 4

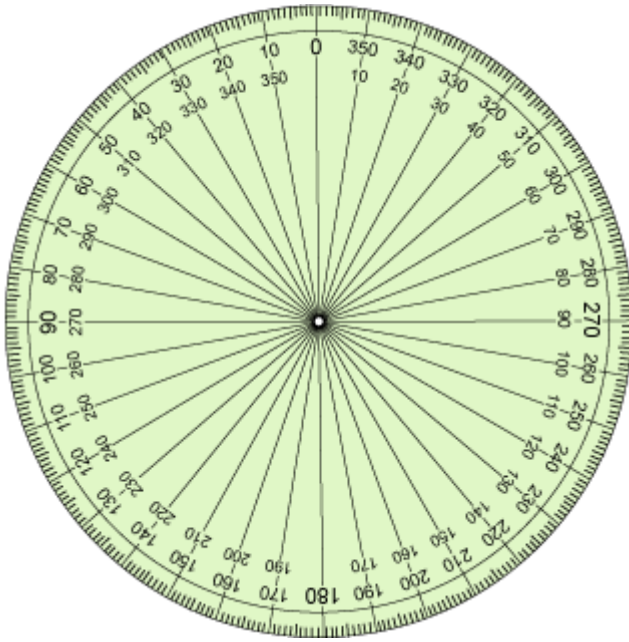
Sam ran around a circular running track twice.

Through what angle did he turn?

Total angle turned = °

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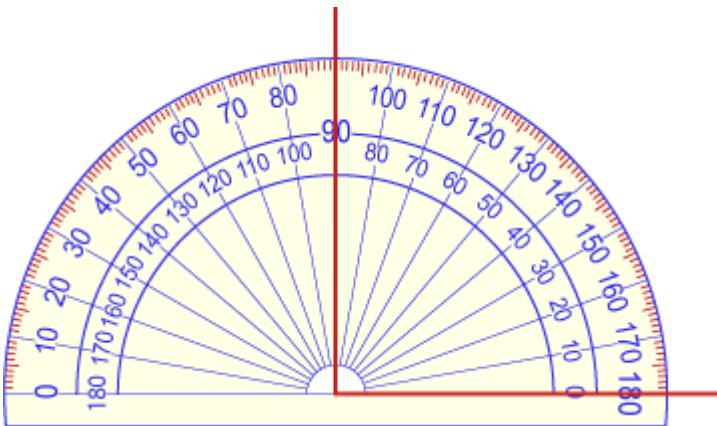
### Question 5



This protractor measures angle sizes from  $0^\circ$  to °

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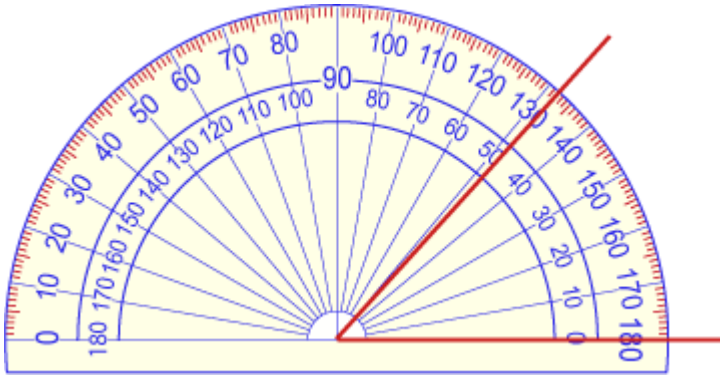
### Question 6



The size of this angle is °

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### Question 7

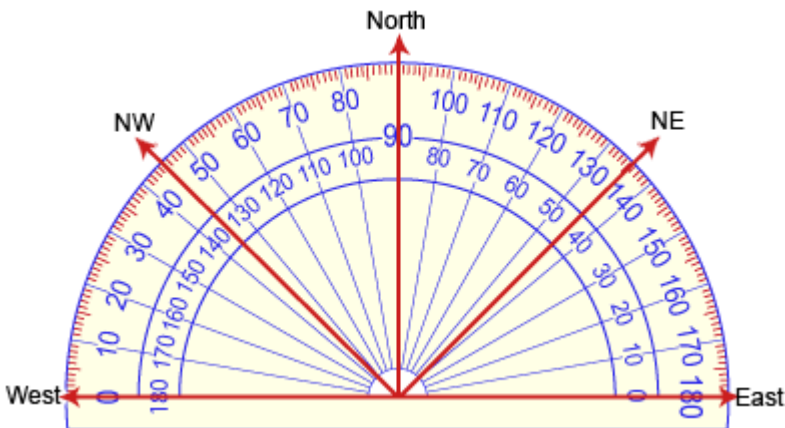


This angle measures:

- a.  $48^\circ$
- b.  $52^\circ$
- c.  $132^\circ$
- d.  $148^\circ$

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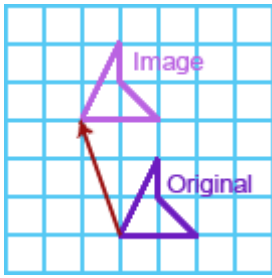
### Question 8



What is the size of the angle between *north* and *north-west*?

°

### Question 9



This quadrilateral has been translated.

When you translate something:

- a. the size stays the same but the shape can change
  - b. the size can change but the shape stays the same
  - c. the size and the shape both stay the same
- 

### Question 10

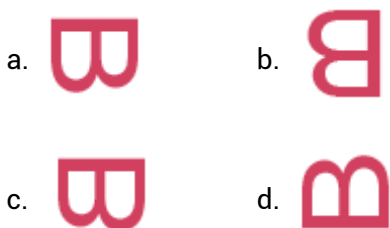
Which of these images shows the letter Y (at the top) rotated through  $90^\circ$  *clockwise*?



### Question 11

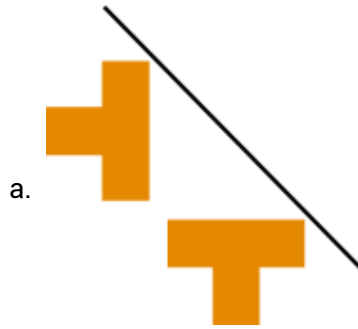
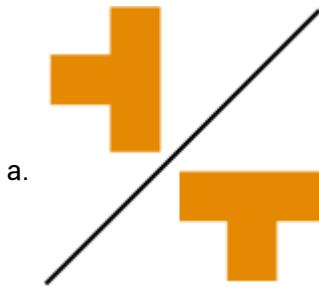
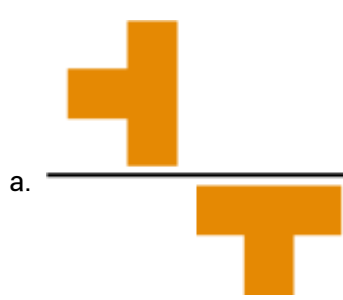
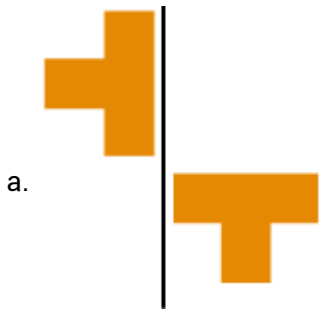
**B**

What will this letter B look like after it has been *rotated*  $270^\circ$  *clockwise*?



### Question 12

A 2D shape was reflected. Select the drawing that correctly shows the axis of symmetry for this reflection.



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### Question 13

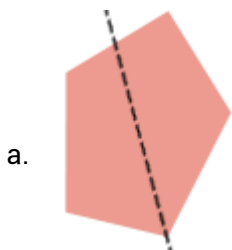
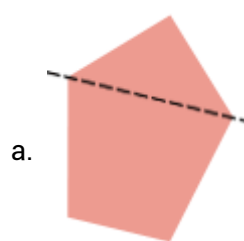
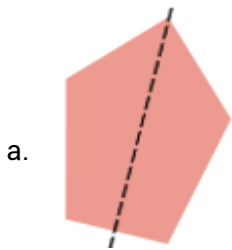
A shape has *rotational symmetry* if it repeats its shape:

- a. at least once in a full turn
- b. more than once in a full turn

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### Question 14

Which shape has an axis of symmetry shown by the dotted line?



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### Question 15



Which has more axes of symmetry, a regular pentagon or a square?

- a. A regular pentagon
  - b. A square
  - c. Neither, they have the same number.
- 

### Question 16

An axis of symmetry of a circle is also its:

- a. circumference
  - b. perimeter
  - c. radius
  - d. diameter
- 

### Question 17

Choose the word that will correctly complete the sentence.

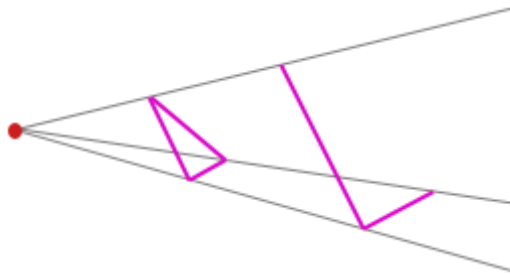
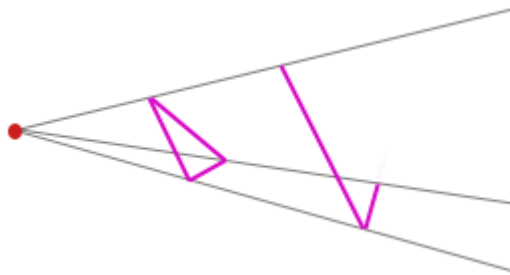
\_\_\_\_\_ a shape makes it smaller while keeping the proportions the same.

- a. Enlarging
  - b. Reducing
-

### Question 18

Mike has started enlarging a triangle using rays.

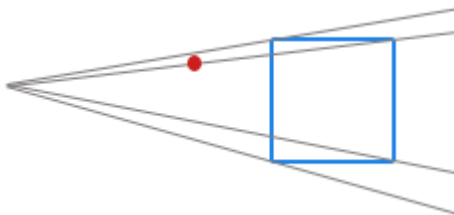
Choose the picture that shows the correct procedure.



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### Question 19

Ebony is using rays from a centre of enlargement to change the size of a square.

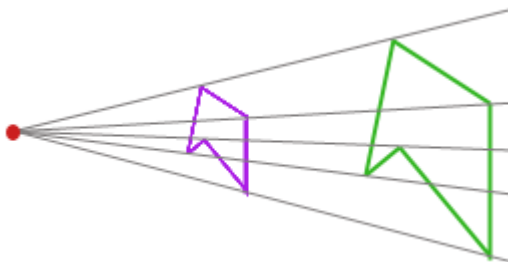


She marked the position of one vertex of the new square.

From this you can see that:

- a. the new square will be smaller
  - b. the new square will be larger
  - c. the new square will be the same size
-

### Question 20



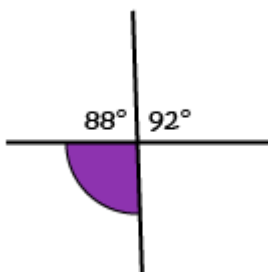
The distance from the centre of enlargement to the larger green pentagon is twice the distance from the centre of enlargement to the purple pentagon.

The perimeter of the green pentagon is 13 cm.

The perimeter of the purple pentagon is  cm.

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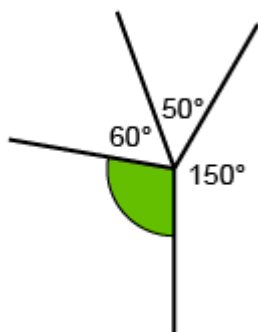
### Question 21



The shaded angle measures:

- a.  $88^\circ$
  - b.  $92^\circ$
- 

### Question 22



What is the size of the shaded angle?

°

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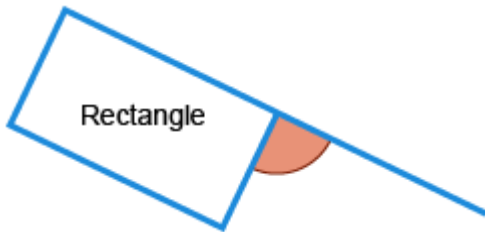
### Question 23

An *acute angle* A measures  $30^\circ$ .

What is the size of the *reflex angle* also formed at A?

°

### Question 24

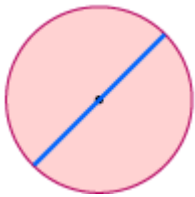


The side of a rectangle has been extended.

What is the size of the shaded angle?

°

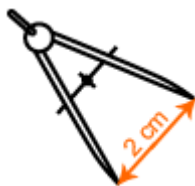
### Question 25



The blue straight line in the circle shows the:

- a. diameter
- b. radius

### Question 26



Adele used a pair of compasses to draw a circle.

The points of the compasses were 2 cm apart.

What was the *diameter* of Adele's circle?

- a. 1 cm
- b. 2 cm
- c. 4 cm

### Question 27

Two radii are drawn in a circle so that they form an obtuse angle at the centre.

Complete this statement to make it true.

The area between the radii and the circumference is:

- a. a regular polygon
  - b. a sector
  - c. a quadrant
  - d. a semicircle
- 

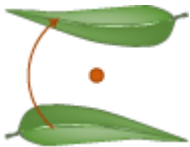
### Question 28

The hands of a clock are dividing the clock face *exactly* into two semicircles.

From the list below, select what time it might be.

- a. 12 o'clock
  - b. Half past 12
  - c. 6 o'clock
  - d. 9:15 pm
- 

### Question 29



The bottom leaf was rotated *half a turn* to make the new leaf.

Enter a number to complete this sentence.

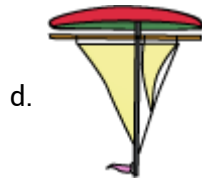
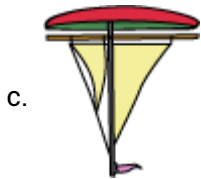
Half a turn is the same as °.

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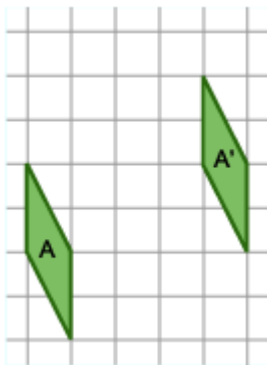
### Question 30



If this boat is *reflected* in the dotted line, what will it look like?



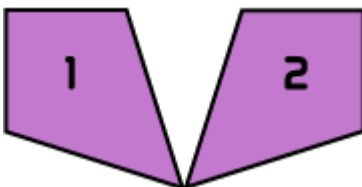
### Question 31



The parallelogram A has been translated:

units right and  units up

### Question 32



To create shape 2 from shape 1 you could use:

- a. translation only
- b. rotation only
- c. reflection only
- d. translation or rotation
- e. translation or reflection
- f. rotation or reflection
- g. translation, rotation or reflection

