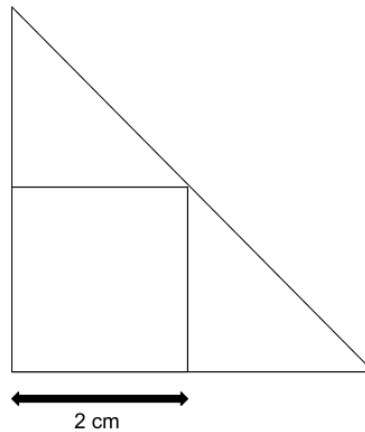


1

Look at the diagram below. It is a right-angle triangle with a square inside the triangle. The square has a side length of 2cm. The height and width of the triangle are double the side length of the square.



What is the area of the triangle?

- A 16cm^2 B 4cm^2 C 12cm^2 D 6cm^2 E 8cm^2

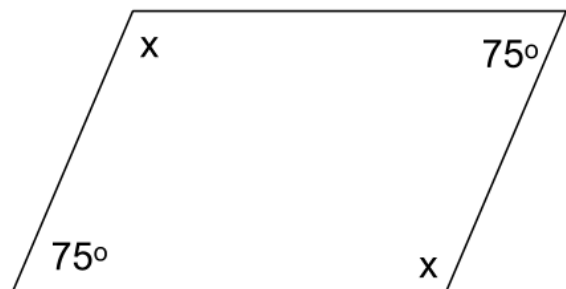
2

What is half of 12345?

- A 617.25 B 6123 C 6172.5 D 6172 E 12345

3

Look at the **quadrilateral** below. It is a **parallelogram**. Within a parallelogram **opposite angles are equal**.



What is the size of the angle x?

- A 105° B 210° C 5° D 360° E 180°

4

There are **twenty 2D shapes** in a **box**. In the box there are:

- **2 squares**
- **1 circle**
- **10 hexagons**
- **2 pentagons**
- **5 rectangles**

- A. The chance that the shape is a rectangle is $\frac{1}{4}$.
- B. The chance that the shape is a circle is 5%.
- C. The chance that the shape is a square is $\frac{1}{10}$.
- D. The chance that the shape is a hexagon is 50%.
- E. The chance that the shape is a pentagon is 5%.

I choose a shape at random from the box.

Which statement is false?

A A B B C C D D E E

For question 5, you must **circle your answer** in the space provided in the question.

5

Look at the function machine below.

Fill in the missing square to make the calculation correct.



In this exercise you have to choose the **best** word, or **group of words**, to complete each numbered line so that the passage makes sense and is written in correct English. Choose the best answer and **mark its letter on your answer sheet**.

Grammar Exercise

1 The coach reminded the team that
 both either each none few player must arrive on time for practice.
A B C D E

2 Ben packed an extra jacket
 in order that even if as long as in case despite the weather turned cold.
A B C D E

3 Hannah whispered the answer although because while so that unless
A B C D E
she would not disturb the others.

4 The lights went out; next to however instead meanwhile otherwise
A B C D E
the audience waited quietly in their seats.

5 The puppy followed its owner closer closet some closely close closely
A B C D E
through the busy park.



Answers

Maths

- 1) E 8cm^2
- 2) C 6172.5
- 3) A 105°
- 4) E E
- 5) +8

English

- 1) C
- 2) D
- 3) D
- 4) D
- 5) E