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## CBSE Class 10 - Mathematics: Chapter – 7 Coordinate Geometry Part 1

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### Value Based Questions

#### Question 1:

There are two routes to travel from source A to destination B by bus. First bus reaches at B via point C and second bus reaches from A to B directly. If coordinates of A, B and C are  $(-2, -3)$ ,  $(2, 3)$  and  $(3, 2)$  respectively then by which bus do you want to travel from A to B (Assume that both buses have same speed.) Which value is depicted in the question?

#### Answer:

1. By direct route from A to B. Reasoning saving. Economical
2.  $(3, 3)$ , Enjoyment, Reasoning.
3. ₹ 300, Social awareness
4. Samir, Punctuality, Sincerity
5. Rectangular, Economical

#### Question 2:

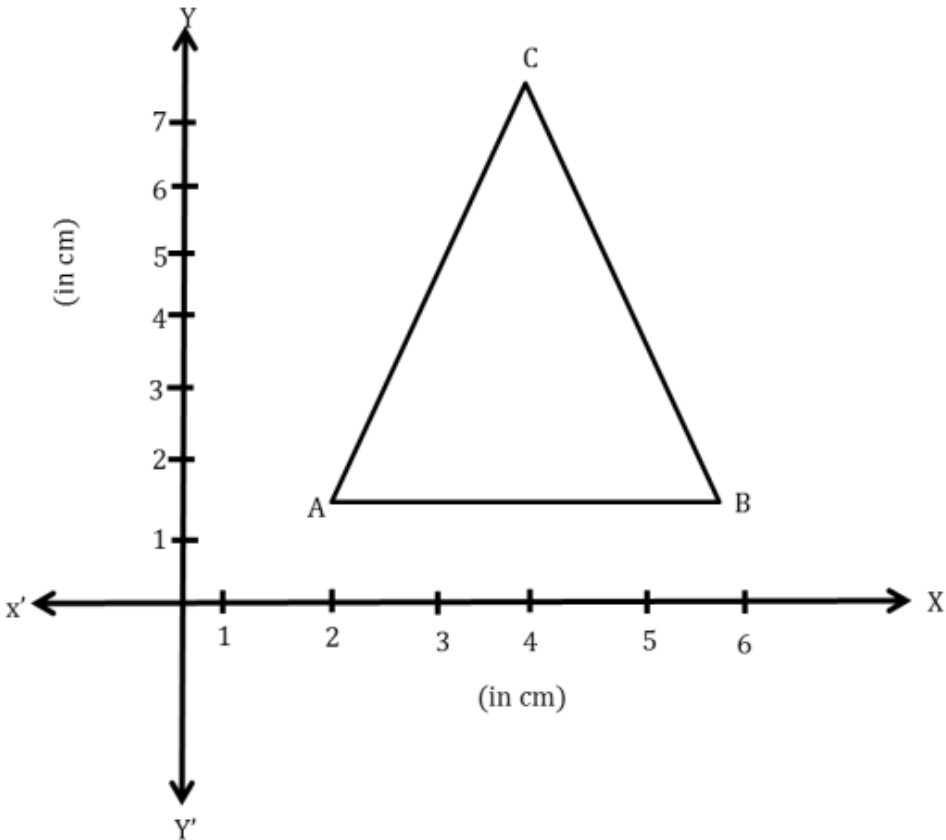
In a sports day celebration, Ram and Shyam are standing at positions A and B whose coordinates are  $(2, -2)$  and  $(4, 8)$  respectively. The teacher asked Geeta to fix the country flag at the mid-point of the line joining points A and B. Find the coordinates of the mid-point? Which type of value would you infer from the question?

#### Answer:

$(3, 3)$  Enjoyment, Reasoning

#### Question 3:

To raise social awareness about hazards of smoking, a school decided to start “No Smoking” campaign. 10 students are asked to prepare campaign banners in the shape of triangle as shown in the fig. If cost of  $1\text{ cm}^2$  of banner is ₹ 2 then find the overall cost incurred on such campaign. Which value is depicted in the question?



Answer:

₹ , 300 , Social awareness

Question 4:

The coordinates of the houses of Sameer and Rahim are (7, 3) and (4, −3) whereas the coordinates of their school is (2, 2) . If both leaves their houses at the same in the morning and also reaches school

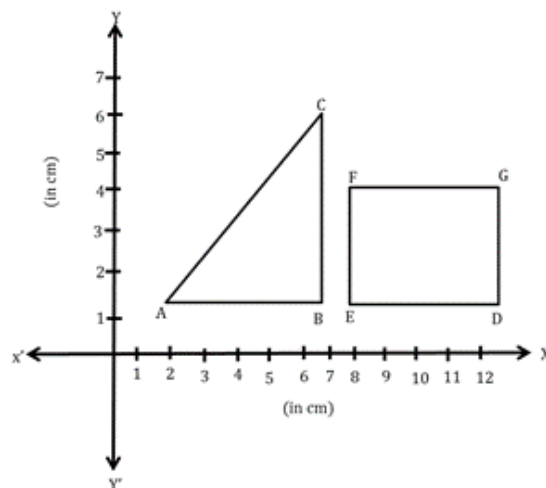
on time, then who travel faster? Which value is depicted in the question?

**Answer:**

Samir, Punctuality, Sincerity.

**Question 5:**

There are two types of fields are available as shown in the fig. which type of field will you purchase if both have same cost? Which value is depicted in the question?



**Answer:**

Rectangular, Economical

## 1 Mark Questions

**Question 1:**

The distance between the point  $(a, b)$ ,  $(-a, -b)$  is

(a)  $2\sqrt{a^2 + b^2}$

(b)  $2\sqrt{a^2 - b^2}$

(c)  $\sqrt{a^2 + b^2}$

(d)  $\sqrt{a + b}$

**Answer:**

(a)  $2\sqrt{a^2 + b^2}$

**Question 2:**

The area of triangle whose vertices are  $(1, -1)$ ,  $(-4, 6)$  and  $(-3, -5)$  is

(a)  $_{21}$

(b)  $_{32}$

(c)  $_{24}$

(d)  $_{25}$

**Answer:**

(c)  $_{24}$

**Question 3:**

The point  $(5, -3)$  lies in

(a) 1<sup>st</sup> quadrant

(b) 2<sup>nd</sup> quadrant

(c) 3<sup>rd</sup> quadrant

(d) 4<sup>th</sup> quadrant

**Answer:**

(d) 4<sup>th</sup> quadrant