

UNIT 7 : COORDINATES, RATIO, AND PROPORTION

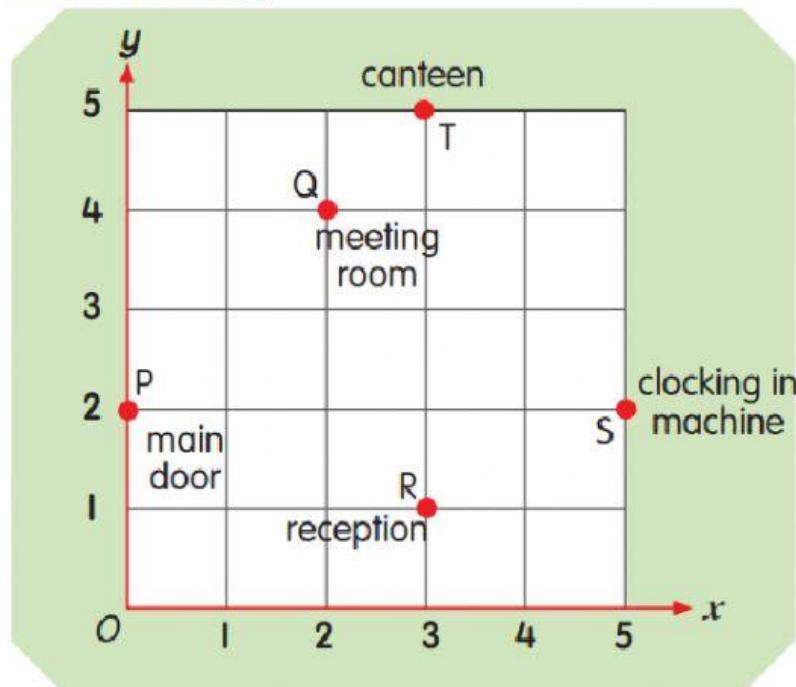
Problem solving

Solve problems involving coordinates, ratio and proportions in daily situations.

WATCH THE VIDEO BELOW

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I The Cartesian plane shows the location of several places in an office building.



a) State the horizontal distance and the vertical distance from S to Q.

Horizontal distance :

Vertical distance :

b) What is the distance travelled by Lucy from R to the canteen?

c) Puan Edith works at R. The distance of Encik Ragu's workplace from Puan Edith's is 3 units horizontally and 1 unit vertically. What is Encik Ragu's coordinate?

	<i>x</i>	<i>y</i>
Coordinate of R		
Distance travelled		
Encik Ragu's coordinate		

Encik Ragu's coordinate :

2 The volume of water left in bottle J and bottle K is 0.5ℓ and 3ℓ respectively. Hazel poured 1.5ℓ of water in bottle J.

State the ratio of the current total volume of water in bottle J and K to the current volume of water in bottle J.

Bottle	J	K
Volume of water	0.5ℓ	3ℓ
Volume of water poured	ℓ	ℓ
Current total volume	ℓ	ℓ

Current total volume of water in bottle J and K

ℓ

Current volume of water in bottle J

ℓ

Ratio of the current total volume of water in bottle J and K to the current volume of water in bottle J

3 Adira used 2 cups of brown sugar and 5 cups of flour to make a type of biscuit. How many cups of brown sugar is needed for 15 cups of flour?

<u>Brown sugar</u>	<u>Flour</u>
2 cups	5 cups
1 cup	
15 cups of flour	
=	
=	

4 A printer can print 400 posters in 1 hour 20 minutes. How much time, in minutes, is needed to print 700 similar posters?

$$1 \text{ hour } 20 \text{ minutes} =$$

$$400 \text{ posters} \longrightarrow$$

$$100 \text{ posters} \longrightarrow$$

$$=$$

$$700 \text{ posters} \longrightarrow$$

$$=$$