

CCT Weekly- Mathematics

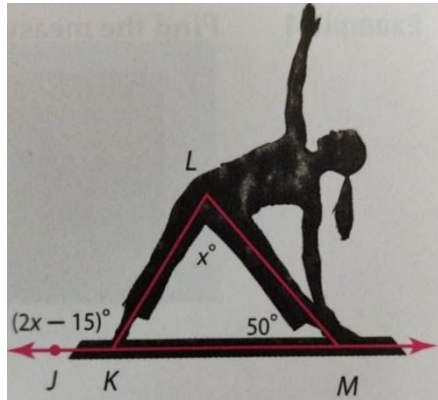
UNIT 1 : Bend an Angle

It is 6:30 am!

Gurpreet rolls out her yoga mat and starts her warm up session with stretching and bending.

Ananya, her daughter is sitting nearby, observing her mother's daily ritual.

Ananya takes a picture of her mother while she was in a yoga posture and labels the picture as shown.



Question 1

What is the pair of angles $\angle JKL$ and $\angle LKM$ called?

- a) Vertically opposite angles
- b) Corresponding angles
- c) Complimentary angles
- d) Linear pair

Question 2

How much does $\angle KLM$ measure?

- a) 115°
- b) 65°
- c) 120°
- d) 60°

Question 3

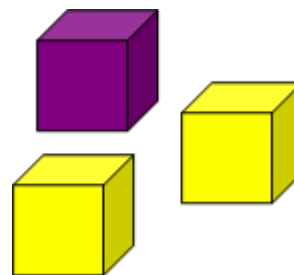
How much does $\angle JKL$ measure?

- a) 115°
- b) 65°
- c) 120°
- d) 60°

UNIT 2: Fair Play

Sujata has two children, Tarun and Mala.
Every Sunday is a game night in the family.

Tonight Sujata has planned for a game with three cubes, one purple and two yellow. She placed the three cubes in a bag and called for her children.



Sujata: Do you want to play a game of probability?

Mala: What is probability?

Sujata: Let me ask you something before I answer you. Can you predict what is in this bag?

Tarun: I cannot guess that!

Mala: I am 100% sure it is a toy!

Sujata: I am glad you think that Mala. Just now you used the concept of probability.

Whether an event can happen or not, can't be predicted with total certainty. But we can always predict how likely or unlikely it is for an event to happen.

And for predicting that, we use a concept called *probability*.

$$\text{Probability (an event to happen)} = \frac{\text{Number of ways event can happen}}{\text{Total number of ways all events can happen}}$$

Placing the bag of cubes in the centre, Sujata explained the rules of the game to the children.

Sujata: Without looking, the first player will pick out a cube from the bag and then the second player will also pick out one cube without looking. If the two cubes picked out were the *same* colour, then the first person will win the game. If the boxes picked out are of two *differently* coloured cubes, then the second player will be the winner.

Question 4

In the first round, Mala pulled out a cube, which was yellow. What is the probability that Tarun will win the game?

- a) $1/2$
- b) $1/3$
- c) $2/3$
- d) 0

Question 5

In the second round, Tarun started by picking out a purple cube. What is the probability for Tarun to win the round?

- a) 1
- b) $1/3$
- c) 0
- d) $2/3$



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Answer Key

UNIT 1 : Bend an Angle

1. d) Linear Pair
2. b) 65°
3. a) 115°

UNIT 2 : Fair Play

4. a) $\frac{1}{2}$
5. c) 0

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