

ANALYTICAL REASONING ASSIGNMENT – 1  
MATHEMATICS

1. The teacher asked Sara to create a story based on her weight and that of Haran, Rehman and Indira. This is what Sara created.

I weigh 30 kg. I am 5 kg lighter than Haran. Rehman is 7 kg heavier than Haran and Indira is 8 kg lighter than Rehman.

- What is the weight (in kg) of each child?
  - Express the weight of each child in grams?
- 966 added to 1944 gives \_\_\_\_\_.
  - 140000 is \_\_\_\_\_ less than twenty thousand.
  - Simran has a total of 156 apples. How many dozens of apples does she have?

Case Study

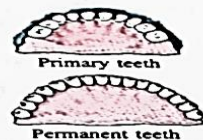
5. Primary teeth

Type	Number
Incisors	8
Canines	4
Molars	8
Total	

Permanent teeth

Type	Number
Incisors	8
Canines	4
Premolars	8
Molars	12
Total	

- The fraction of primary teeth to permanent teeth \_\_\_\_\_
- The fraction of canines \_\_\_\_\_
- The fraction of canines to incisors \_\_\_\_\_
- The fraction of incisors to primary teeth \_\_\_\_\_



**Read about Neeraj Chopra and answer the questions.**  
Neeraj Chopra has won the men's javelin throw gold medal at the 2020 Tokyo Olympics. He is the first Indian track and field athlete to become an Olympic champion. Following are the results of the men's javelin throw final\*.



Participant	Country	Result
Johannes Vetter	Germany	82.52 m
Neeraj Chopra	India	87.58 m
Julian Weber	Germany	85.30 m
Jakub Vadlejch	Czech Republic	86.67 m
Vitezslav Vesely	Czech Republic	85.44 m

- Arrange the results in descending order.  
\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- Name the athlete who won the
  - Gold medal. \_\_\_\_\_
  - Silver medal. \_\_\_\_\_
  - Bronze medal. \_\_\_\_\_
- In July 2022, at the Stockholm Diamond League, Neeraj Chopra's throw was 89.94 m. Write 89.94 in words.  
\_\_\_\_\_
- What is the difference between Neeraj Chopra's Diamond League score and the Olympic throw score?
 

Diamond League score	_____
Olympic throw score	_____
Difference	_____
- What is the total of Neeraj Chopra's and Johannes Vetter's Olympic throw scores?
 

Neeraj Chopra's Olympic throw score	_____
Johannes Vetter's Olympic throw score	_____
Sum	_____

## Science

1. Which of the following is not required for photosynthesis.

Oxygen

Carbon-di-oxide

Sunlight

Water

2. \_\_\_\_\_ is the stem part of the plant that stores food.

Cabbage

Turnip

Sugar

Carrot

3. \_\_\_\_\_ is not required for the formation of bones.

A) Vitamin A

B) Calcium

C) Vitamin D

D) Phosphorus

4. \_\_\_\_\_ are used to bite an apple.

A) Canines

B) Molars

C) Incisors

D) Pre- Molars

5. Which of the following is an inflammable substance?

A) Salt

B) sugar

C) petrol

D) water

6. Name an animal whose ears are like a fan?

A) Rabbit

B) Tiger

C) Elephant

D) Giraffe

7. Which of the following give birth to the babies?

A) hen

B) Snake

C) Lizard

D) Bat

8. Name the transport by which you can cross a river.

A) Boat

B) Bus

C) Tonga

D) Ferry

9. What is the name of a bee's house?

A) Beehive

B) Burrow

C) Den

D) Kennel

10. In which state value of flower situated?

A) Uttrakhand

B) Bihar

C) Cochin

D) Mumbai

## English

Bees are insects. Bees are special insects because they can fly! They can move through the air like an airplane! Bees can fly because they have wings. They use their wings to fly. Bees can fly fast. Bees can also fly slow. They can fly up and they can fly down. They need to fly to get to the flowers! Bees can have three colors. They can be yellow, red, and orange. All bees are black in some places. Bees have three main parts. They have a head. They have a body. And, they have a stinger. The stinger is used to defend against enemies. They also have six legs. They use their legs to stand and climb. They also use their legs to eat and collect pollen. Bees live in many places. They live in Africa, Australia, Asia, Europe, North America, South America. The only continent that bees do not live on is Antarctica! I understand why they don't live in Antarctica. It's too cold! Most of the time, bees are nice to humans. If you do not bother them, they will not bother you. Have fun watching the bees this summer!

Answer the following questions:-

1) What are bees?

A. Mammals

B. Birds

C. Reptiles

D. Insects

2) How do bees fly?

A. They use their legs.

B. They use their head.

A. They use their wings.

D. None of the above.

3) How many legs do bees have?

A. Two

B. Four

C. Six

D. Eight

4) What is the stinger used for?

A. To eat food.

B. To defend against enemies.

C.Both A and B. D. None of the above.

5) Where do bees live?

A.North America B. Asia C. Antarctica D. Both A and B

6) Europe is a (noun/verb).

7)Colours are (adjectives/adverbs).

8)Name the place which is too cold to survive for bees.

A. Australia B. Antartica C. Europe D. Asia

9.What do the birds use to collect pollen

A. big body B. wings C. legs. D. intelligence

10.What is a stinger?

A. bird B. animal. C. body part of an insect D.reptile