

## MENTAL ABILITY

- Rohan used 108 blocks to build a rocket. He used 246 blocks to build a castle. How many more blocks did he use to build the castle ?  
 (A) 138 (B) 142 (C) 344 (D) 354 (E) None of these.
- Each square in the grid is 1 m long. What is the length of the rectangle made by joining 10 such squares as shown in the figure ?  
 (A) 10 m (B) 14 m (C) 5 m (D) 7 m (E) None of these.
- Anita wants to measure how long it takes to brush her teeth. Which tool should Anita use ?  
 (A) (B) (C) (D) (E) None of these.
- Joy traced the shapes shown here. How many triangles did Joy trace ?  
 (A) 1 (B) 2 (C) 3 (D) 4 (E) None of these.
- Which square is  $\frac{1}{4}$  shaded ?  
 (A) (B) (C) (D) (E) None of these.
- Which number sentence is correct ?  
 (A)  $10 + 10 + 10 + 4 = 30$  (B)  $10 + 10 + 10 + 4 = 34$  (C)  $10 + 10 + 10 + 4 = 70$   
 (D)  $10 + 10 + 10 + 4 = 304$  (E) None of these.
- Richa is making this pattern using her toy cars.  
  
 How many cars belong in the next group ?  
 (A) 15 (B) 13 (C) 9 (D) 4 (E) None of these.
- Which flag is 5<sup>th</sup> in line from the school ?  
 (A) (B) (C) (D) (E) None of these.
- Look at the pattern of numbers shown here.  
 85 82 79 76 ?  
 If the pattern continues in the same way, what will be the next number ?  
 (A) 73 (B) 75 (C) 65 (D) 69 (E) None of these.
- Look at this number sentence.  $8 + \square = 15$   
 What could you do to find the missing number ?  
 (A) Add 8 and 15 (B) Subtract 7 from 8 (C) Multiply 8 and 15 (D) Subtract 8 from 15  
 (E) None of these.
- Nalu walks to school every day. He leaves home at 8:45 A.M. and arrives at the school playground at 9:04 A.M. How many minutes does it take Nalu to walk to school ?  
 (A) 19 minutes (B) 29 minutes (C) 59 minutes (D) 30 minutes (E) None of these.
- Sara wants to choose one pail and one shovel. She can choose from the pails and shovels shown here. How many different ways can Sara choose one pail and one shovel ?  
 (A) 2 (B) 3 (C) 5 (D) 6 (E) None of these.
- Enna picked enough hundred's, ten's and one's blocks to make a model of the number 326. Which blocks did Enna pick ?  
 (A) (B) (C) (D) (E) None of these.
- The calendar given here shows Peter's birthday. Kapil's birthday is 3 days before Peter's birthday. What is the date of Kapil's birthday ?  
 (A) September 11 (B) September 13 (C) September 14 (D) September 12 (E) None of these.
- Which choice is the same as the number sentence shown below ?  
 $5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 = \square$   
 (A)  $6 \times 5$  (B)  $7 \times 5$  (C)  $8 \times 5$  (D)  $9 \times 5$  (E) None of these.

## SCIENCE

- These pictures can be put in order to tell a story. Which of these pictures is MOST likely to come last ?  
 (A) (B) (C) (D) (E) None of these.
  - Which sense is used to tell if there is sugar in a glass of tea ?  
 (A) Touch (B) Hearing (C) Taste (D) Smell (E) None of these.
  - Which of these is an example of liquid water ?  
 (A) Ice (B) Rain (C) Frost (D) Steam (E) None of these.
  - Which of these does the MOST harm to the air ?  
 (A) Picking colourful wildflowers along the highway (B) Collecting fallen leaves  
 (C) Chopping down trees with an axe in the backyard (D) Cutting grass with a gas-powered lawnmower  
 (E) None of these.
  - Which of the following seasons shows the day when this thermometer was left outside ?  
 (A) Autumn (B) Summer (C) Winter (D) Spring (E) None of these.
  - Which diagram shows back-and-forth motion ?  
 (A) (B) (C) (D) (E) None of these.
  - The pictures compare the sizes of four different birds. How would you arrange the birds in order from smallest to largest ?  
 (A) Crow, Cardinal, Dove, Sparrow (B) Sparrow, Cardinal, Dove, Crow  
 (C) Cardinal, Sparrow, Crow, Dove (D) Sparrow, Cardinal, Crow, Dove (E) None of these.
  - A dog gets the energy it needs to run from -  
 (A) Water (B) The Sun (C) The air (D) Food (E) None of these.
  - The three plants given in the table are grouped together because all three -  
 (A) Need some shade (B) Lose their leaves (C) Have thorns (D) Are shrubs (E) None of these.
- | September |     |      |     |      |     |     |
|-----------|-----|------|-----|------|-----|-----|
| Sun       | Mon | Tues | Wed | Thur | Fri | Sat |
|           | 6   | 7    | 8   | 9    | 10  | 11  |
| 13        | 14  | 15   | 16  | 17   | 18  | 19  |
| 20        | 21  | 22   | 23  | 24   | 25  | 26  |
| 27        | 28  | 29   | 30  |      |     |     |
- Which of these belongs to the centre ?  
 (A) Things that cover animal bodies (B) Things that help animal bodies get oxygen  
 (C) Things that make the animal smaller (D) Things that keep animal bodies cool (E) None of these.
  - This sunflower is how many blocks tall ?  
 (A) 7 (B) 10 (C) 9 (D) 8 (E) None of these.
  - What will happen to the water in the pot if left over the campfire ?  
 (A) The water will turn into a liquid (B) The water will turn into ashes  
 (C) The water will turn into a gas (D) The water will turn into a solid (E) None of these.
  - Which of these weather conditions caused the corn field to look as shown in the picture ?  
 (A) A tornado (B) A flood (C) A drought (D) A snowstorm (E) None of these.
  - When you sharpen a pencil, it becomes -  
 (A) More flexible (B) Smaller (C) Harder (D) Smoother (E) None of these.
  - Which group of weights has a mass of 32 grams ?  
 (A) (B) (C) (D) (E) None of these.
  - If you could examine a piece of cloth with a hand lens, you would see that the cloth is made of -  
 (A) Energy (B) Threads (C) Glue (D) Minerals (E) None of these.
  - Water boils at 100°C. Which thermometer shows the temperature of boiling water ?  
 (A) (B) (C) (D) (E) None of these.
  - The magnet will pick up the nail but not the penny because the nail -  
 (A) Contains iron (B) Is lighter than the penny (C) Has rust on it (D) Has a sharp point (E) None of these.
  - Which object shown below belongs to Box B ?  
 (A) (B) (C) (D) (E) None of these.
  - Which block will finish the pattern ?  
 (A) Red (B) Green (C) Blue (D) Yellow (E) None of these.
  - Which of these is a non-living thing that mice need to live ?  
 (A) Water (B) Rocks (C) Grass (D) Seeds (E) None of these.
  - Which of these animals should be in a group that has six legs and only two wings ?  
 (A) (B) (C) (D) (E) None of these.
  - Which instrument should be used to measure how hot the water is in the pan ?  
 (A) (B) (C) (D) (E) None of these.
  - The picture shows a large area and the animals that live there. Which animal has the largest population in this area ?  
 (A) The rabbit (B) The hawk (C) The deer (D) The mountain lion (E) None of these.
  - Which of the following ways of travelling pollutes the air the least ?  
 (A) Riding the bus (B) Riding a car (C) Riding an airplane (D) Riding a bike (E) None of these.
  - Which of these is floating on water but sinking in oil ?  
 (A) The marble (B) The paper clip (C) The balloon (D) The ice cube (E) None of these.
  - The weather is part of the daily news. Tracking the weather is most important for people who -  
 (A) Work in banks (B) Sell televisions (C) Grow crops (D) Use computers (E) None of these.
  - Which animal probably made this foot mark ?  
 (A) (B) (C) (D) (E) None of these.
  - Which of these do the people build to stop flooding ?  
 (A) Streets (B) Dams (C) Sidewalks (D) Bridges (E) None of these.
  - Which material will not dissolve in water ?  
 (A) Sand (B) Salt (C) Baking soda (D) Sugar (E) None of these.
  - Which among these is a junk food ?  
 (A) (B) (C) (D) (E) None of these.
  - What is the amount of water in the jar ?  
 (A) 55 ml (B) 5.1 ml (C) 5.5 ml (D) 51 ml (E) None of these.
  - Which item can be used over and over again ?  
 (A) (B) (C) (D) (E) None of these.
  - The picture shows a stick of clay. When the clay was cut into pieces, which of these was the only thing that changed ?  
 (A) Its stickiness (B) Its softness (C) Its shape (D) Its colour (E) None of these.
  - Which of these will measure weight ?  
 (A) (B) (C) (D) (E) None of these.