

GRADE - 6

Practice questions -Competency Assessments

MATHEMATICS

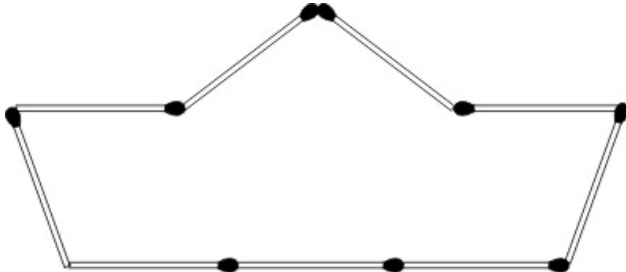
Q1 The weighing machine shown below is displaying the weight of a newborn baby.



What is the baby's weight rounded to the nearest 100 grams?

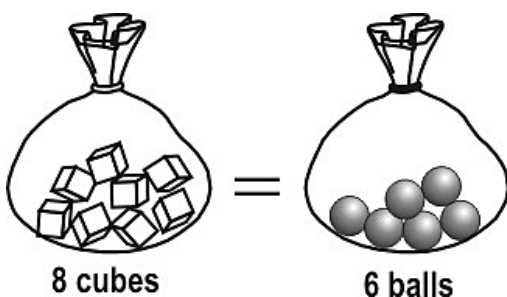
- A. 2.84 kg
- B. 2.85 kg
- C. 2.8 kg
- D. 3.0 kg

Q2 What is the perimeter of this matchstick figure if each matchstick is 5 cm long?



- A. 9 cm
- B. 10 cm
- C. 45 cm
- D. 81 cm

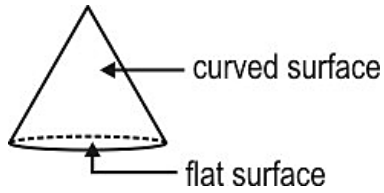
Q3



If the two bags shown above weigh the same, which of the following would ALSO weigh the same?

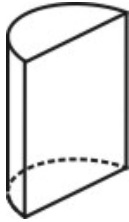
- A. 3 cubes, 2 balls
- B. 5 cubes, 3 balls
- C. 12 cubes, 9 balls
- D. 10 cubes, 8 balls

Q4 Shown below is a cone.



It has a flat surface and a curved surface.

How many flat surfaces does the solid shown below have?



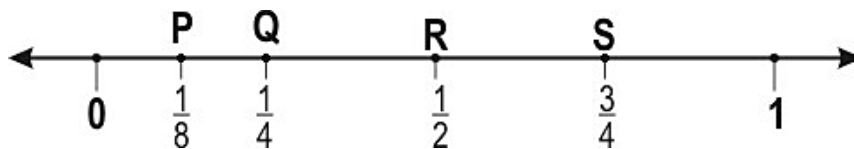
A. 1

B. 2

C. 3

D. 4

Q5 0.8 will be closest to which of the points marked on the number line below?



A. Point P

B. Point Q

C. Point R

D. Point S

Q6 What would come in the blank below to make the number sentence true?

$$8 \times 3 = 2 \times 3 + \underline{\quad} \times 3.$$

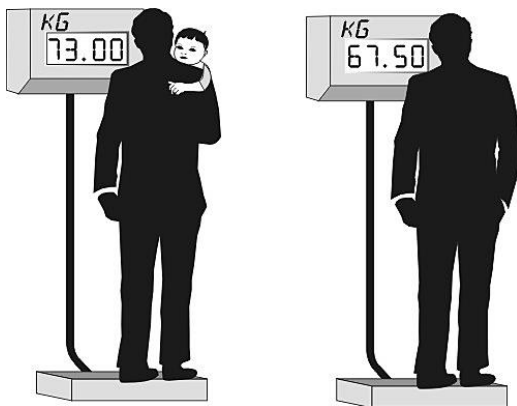
A. 3

B. 4

C. 6

D. 8

Q7 Mr. Mehta stood on the weighing scale twice, first with his daughter and then without his daughter.



How much did Mr. Mehta's daughter weigh?

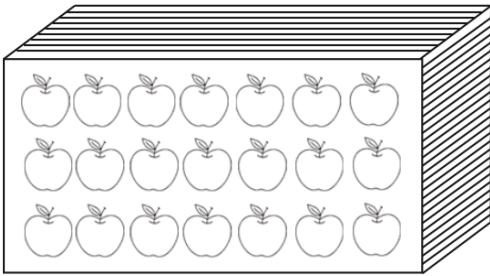
A. 4.5

B. 5.5

C. 6.5

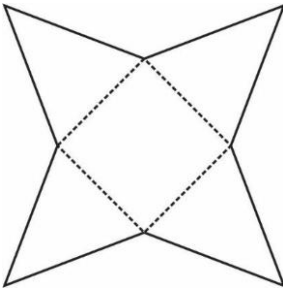
D. 67.5

Q8 If shoppers buy 18 of the apples from the carton shown below, what fraction of the apples will be left in the carton?



- A. $\frac{1}{5}$ B. $\frac{1}{6}$
C. $\frac{1}{7}$ D. $\frac{1}{8}$

Q9 On folding the paper given below along the dotted lines, which shape would be formed?



- A. Cone B. Prism C. Pyramid D. Cube

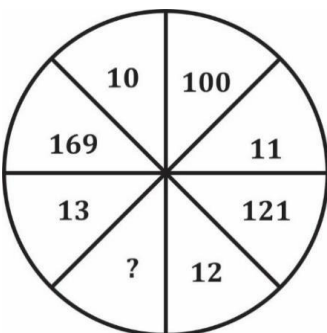
Q10 A man gave his wife ₹ 10,000 for household expenses. She spent ₹ 7,600 and distributed the remaining amount equally among their 3 children. How much money does each child receive?

- A. ₹ 2,500 B. ₹ 800 C. ₹ 2,400 D. ₹ 833

Q11 Which of the following correctly represents the number 9064 in the expanded form?

- A. $9000 + 0 + 60 + 4$ B. $900 + 6000 + 60 + 4$
C. $9000 + 600 + 4$ D. $900 + 60 + 4$

Q12 In the given figure, the numbers are written according to a series. Find the missing number in the series.



- A. 225 B. 81 C. 144 D. 400

Q13 A student was asked to subtract 1 from the smallest 6-digit number. What would be the resultant number?

- A. 99,999
- B. 10,000
- C. 9,99,999
- D. 1,00,000

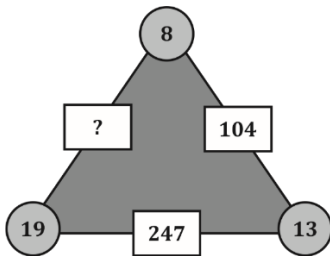
Q14 Find the difference in place value between the two 8's in the given number 83812.

- A. 7,200
- B. 79,200
- C. 79,920
- D. 7,992

Q15 After walking 100 meters towards North, Arjun takes a right turn and walks 135 meters to reach his school. In which direction is he facing now?

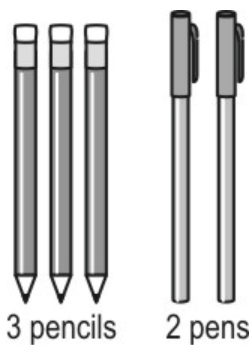
- A. East
- B. West
- C. South
- D. North

Q16 What is the correct value for the box with the question mark based on the pattern shown in the other two boxes?



- A. 27
- B. 266
- C. 152
- D. 112

Q17 On the reopening day of the school, a teacher gave each student in her class a packet containing 3 pencils and 2 pens.



If she distributed 72 pencils in all, how many pens did she distribute?

- A. 24
- B. 48
- C. 120
- D. 144

Q18 $\square - 45 > 100$

Which of the following could be the number in the box?

- A. 55
- B. 145
- C. 150
- D. It is not possible.

ENGLISH

Read the given passage and answer the questions.

Once, there lived a mouse on a farm. One day, he came across a basket full of corn and his mouth started watering at the sight. He quickly made a small hole in the basket and squeezed through. As usual, he ate more than he needed to satisfy his hunger.

When he felt full, he decided to get out. He tried to squeeze through the same small hole but to his horror, he could not. He kept trying, in vain. By the time evening came, he was so exhausted that he started crying. A rabbit who was passing by heard him.



He asked, "Why are you crying, my friend?"

The mouse explained, "I got into the basket through a small hole. But, I can't get out through it."

The rabbit laughed, "You probably ate too much. Wait till your belly shrinks." Then, he went on his way.

The mouse fell asleep in the basket. When he woke up the next morning, he saw that his belly was back to its normal size. But he felt like eating

more corn. Again, he ate more than his fill and could not get out. He thought, "Oh! Now I will go out tomorrow."

The next passer-by was a cat. She smelt the big fat mouse in the basket, lifted the lid and caught him easily.

Q1 In this story, when was the mouse's chance to get out of the basket?

- A. before a rabbit heard him cry
- B. while the cat was passing by the basket
- C. when he first tried to come out through the hole
- D. the next day, when his belly had shrunk

Q2 Why did the mouse start crying?

- A. because the rabbit did not help him
- B. because he was unable to eat more corn
- C. because he couldn't come out of the basket
- D. because his stomach was hurting badly

Q3 The next day, the mouse ate the corn again because _____.

- A. he did not like a shrunken belly
- B. he was feeling hungry again
- C. he wanted to come out of the basket
- D. he did not want to follow the rabbit's advice

Q4 The mouse's death was the result of _____

- A. his greed
- B. his cleverness
- C. the rabbit's advice
- D. the cat's kindness

Q5 Where did the mouse live?

- A. In a house
- B. In the farm
- C. In a factory
- D. In a tunnel

Read the given passage and answer the questions.

The universe is a huge place with galaxies, planets and stars. So, are the living things only on Earth? We have not yet discovered life on any other planet. However, let's think about life on our planet, Earth. Let's not think of big living things like elephants and whales. Think of tiny living things. We keep finding new ones.

What we understand as our environment keeps changing. We have only started exploring our planet and know very little about other planets. Places like Saturn's moon might have life, as some research has shown. We do not know, but we may find out in the future. Let's keep looking.

Q6 According to the passage, which place might possibly have life?

- A. Venus' moon
- B. Saturn's moon
- C. Neptune's moon
- D. Earth's moon

Q7 According to the passage, what do humans know of other planets?

- A. Humans know that other planets have many moons.
- B. Humans know that other planets have elephants and whales.
- C. Humans know a lot about other planets.
- D. Humans know very little about other planets.

Q8 What does 'Let's keep looking' indicate?

- A. Humans should keep looking for other big living things.
- B. Humans should keep looking for other planets.
- C. Humans should keep looking for life on other planets.
- D. Humans should stop looking for life on other planets.

Q9 What does the passage **NOT** talk about?

- A. We may gain new knowledge in the future.
- B. Some planets are composed of gases.
- C. Life might exist on other planets.
- D. Environments on Earth are changing.

Q10 What does the passage try to say?

- A. There are more tiny living things than big living things.
- B. We have already discovered everything about the universe.
- C. We still don't know much about the universe we live in.
- D. The universe has living things on every planet and star.

Read the given poster and answer the questions.

Healthy Vegetable Pancake Recipe

Ingredients

- Gram flour
- Turmeric
- Chopped onions, tomatoes, green chilli
- Salt
- Oil
- Water

Method:

1. Mix four tablespoons of gram flour, some salt, and half a teaspoon of turmeric in a bowl.
2. Add 100 ml water and make a smooth batter.
3. Take one small onion, one small tomato, a green chilli, and chop them finely into small pieces.
4. Add the chopped vegetables to the batter and mix.
5. Heat a pan and grease it with oil.
6. Pour some batter into the pan.
7. Cook until the pancake is golden brown on both sides. Looks crispy, right?
8. Serve it with a sauce made of coriander and tomatoes.

Enjoy the healthy meal!

Q11 Which ingredient is added while making the batter?

- | | |
|--------------|-----------|
| A. Coriander | B. Oil |
| C. Turmeric | D. Butter |

Q12 Which ingredient does NOT have an exact measurement mentioned in the recipe?

- | | |
|-------------|-----------|
| A. Tomato | B. Salt |
| C. Turmeric | D. Chilli |

Q13 When should we pour the batter into the pan?

- | | |
|---------------------------|-------------------------------|
| A. Before heating the pan | B. After greasing the hot pan |
| C. After heating the pan | D. After washing the hot pan |

Q14 Choose the main ingredients of the pancake batter.

- | | |
|-------------------------|----------------------------|
| A. Salt and turmeric | B. Turmeric and water |
| C. Gram flour and water | D. Gram flour and tomatoes |

Q15 What does the pancake 'being golden brown' mean?

- | | |
|---|--|
| A. It's been cooked well on both sides. | B. The batter has been mixed well. |
| C. It's been burnt on both sides. | D. There is enough turmeric in the batter. |

ENVIRONMENTAL SCIENCE

Q1 Vandan's doctor wanted to check his hemoglobin count. She advised him to go for a test and bring back the results. Which test could it be?

- A. a urine test
- B. a blood test
- C. a brain scan
- D. an X-ray scan

Q2 Some flowers that are not brightly coloured can attract animals even at night. Which of these senses would the animals most probably use to reach such flowers?

- A. taste
- B. smell
- C. touch
- D. hearing

Q3 In the big cities in India, mosquitoes seem to increase in number during the rainy season. The reason for this may be:

- A. the hot, humid weather and stagnant water are ideal for breeding
- B. the moisture from the rain is essential for eggs to hatch in all mosquitoes
- C. keeping windows closed increases the number of mosquitoes inside the room
- D. it seems so - (the number of mosquitoes is more or less the same throughout the year)

Q4 Neha's mother is making vegetable pickle. She does the following.

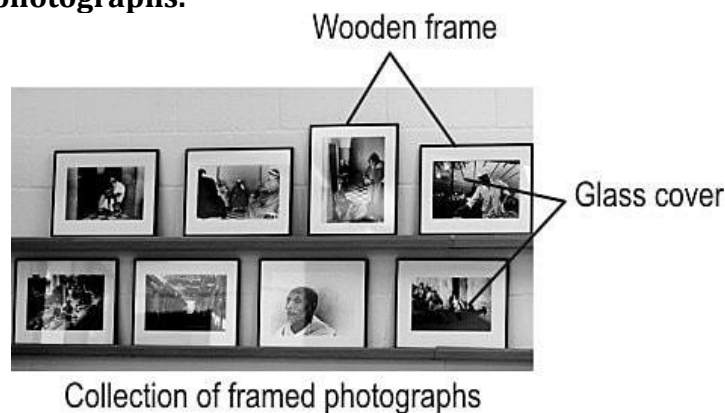
Step 1	cuts the vegetables into small pieces	Step 2	soaks the vegetables in water for some time
Step 3	mixes the vegetables with spices	Step 4	stores the mixture in a cool dark place

One of these steps may cause the pickles TO SPOIL.

Which step is it likely to be?

- A. step 1
- B. step 2
- C. step 3
- D. step 4

Q5 Here is a collection of framed photographs. The frames are made of wood, and glass is used to cover the photographs.



Which of the following is the MOST LIKELY reason why glass is used as a cover in these photo frames?

- A. It can break easily.
- B. It can get scratched.
- C. It is very light in weight.
- D. It lets light to pass through.

Q6 Akshay adds an ice block weighing 0.5 kg to 1 kg of water that is kept in a glass vessel in a normal room. After about 10 minutes the vessel will have _____.

- A. the same quantities of ice and water as at the start
- B. no ice and the same quantity of water as at the start
- C. all its contents in the form of ice and no water
- D. more of water and less of ice than at the start

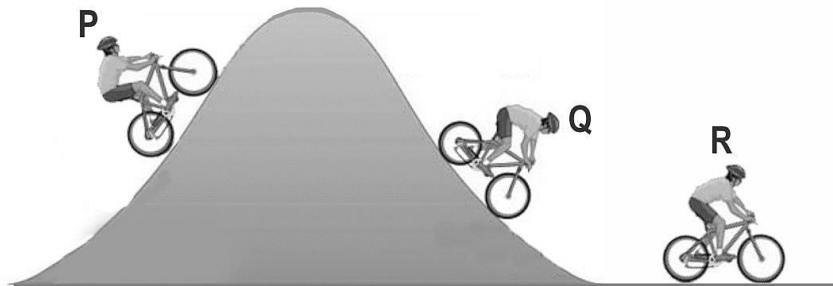
Q7 Simon saw an animal near the river. He saw that the animal had the following characteristics:

i) It eats insects. ii) It lays eggs in water. iii) It has soft and moist skin.

Which of the following animals could it be?

- A. frog
- B. duck
- C. turtle
- D. mosquito

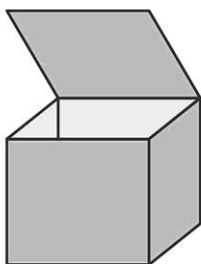
Q8 The picture shows a cyclist moving uphill, downhill and along a flat road.



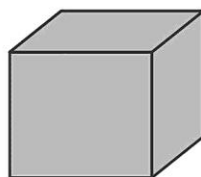
At which position is the force of gravity acting on the cyclist?

- A. only P
- B. only Q
- C. only P and Q
- D. all - P, Q and R

Q9 Salman weighs a wooden box with its lid open. He then weighs it again after closing its lid.



Wooden box with lid open



Wooden box with lid closed

Which of the following is likely to be true about the weight of the box?

- A. It weighs more with the lid open.
- B. It weighs more with the lid closed.
- C. It weighs the same with the lid closed or open.
- D. (Cannot say any of the above without knowing the amount of air inside.)

Q10 Out of the following, which is **NOT** the role of panchayat in the village?

- A. Ensuring proper water supply to the people
- B. Building new roads and drainage systems in the village.
- C. Renovation of community centres in the village
- D. Implementation of law and order in the village

Q11 Which of the following correctly matches the animal with its food habit category?

- A. Cow - Carnivorous
- B. Lion - Herbivorous
- C. Bear - Omnivorous
- D. Deer - Omnivorous

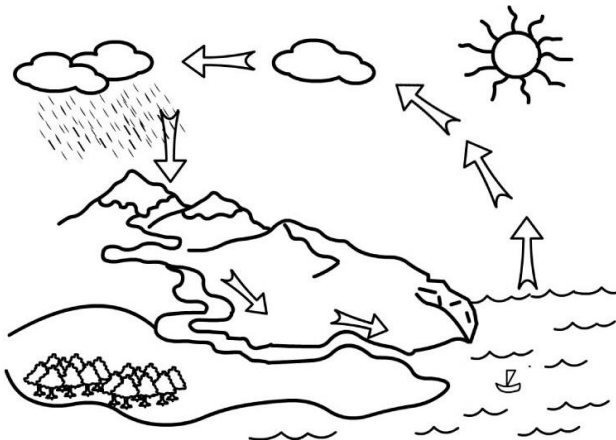
Q12 Which adaptation of Cactus helps it survive in dry environments with limited water?

- A. Broad leaves
- B. Deep roots
- C. Thin stems
- D. Shallow roots

Q13 Which planet takes the longest time to complete one revolution around the sun?

- A. Mercury
- B. Venus
- C. Earth
- D. Neptune

Q14 Identify the natural system shown in the image.



- A. The life cycle of plants
- B. Carbon cycle
- C. Water cycle
- D. The life cycle of the Sun

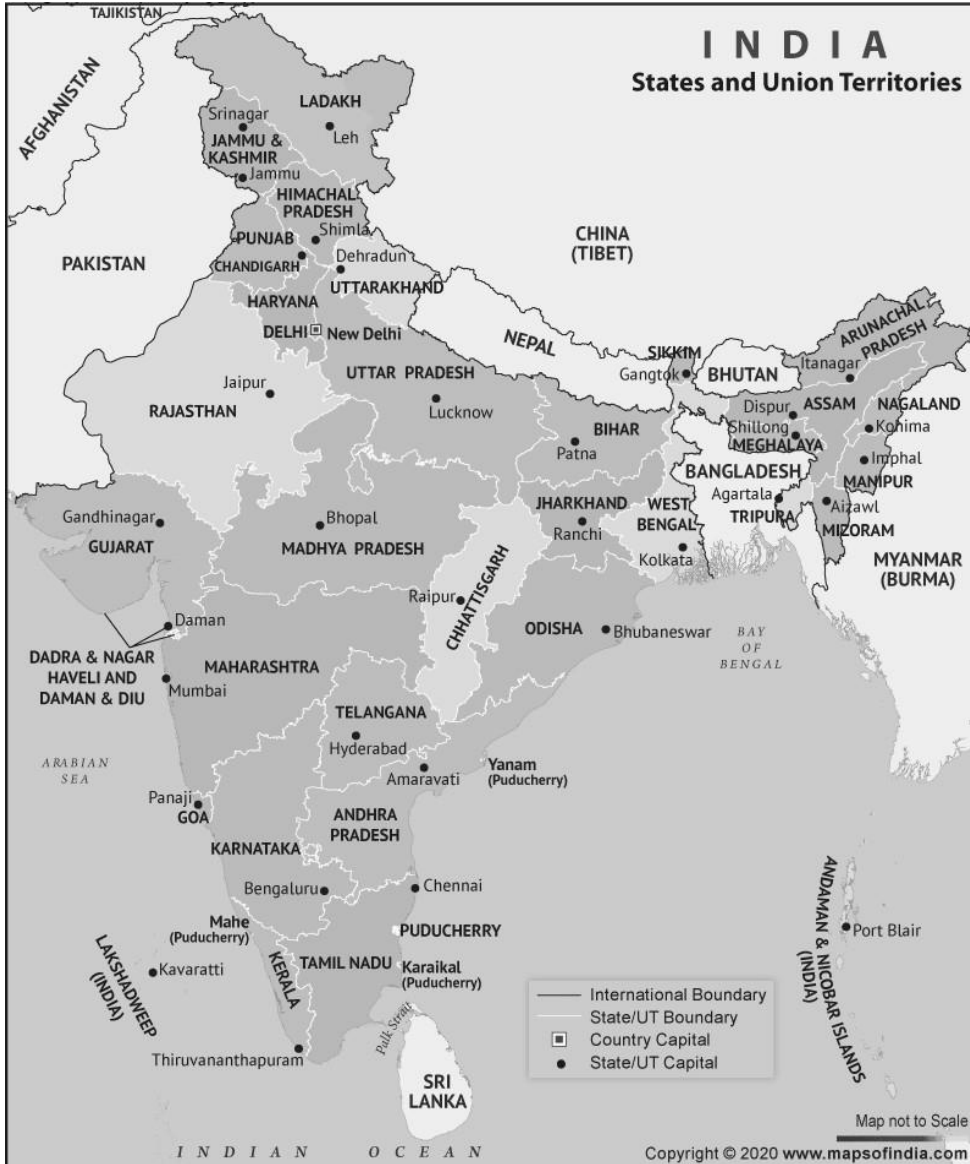
Q15 Which natural resource do solar cookers use for cooking?

- A. Wind
- B. Wood
- C. Sunlight
- D. Coal

Q16 What are the basic manners to remember when travelling on public transport?

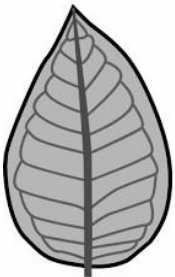
- A. Eat food and then leave trash behind.
- B. Push others aside to get a seat.
- C. Offer seats to elderly or disabled passengers.
- D. Take up extra seats with your belongings.

Q17 According to the map of India given below, which of the following is the southernmost state in India?



- A. Himachal Pradesh
- B. Tamil Nadu
- C. Uttarakhand
- D. Andhra Pradesh

Q18 What is the main purpose of the vein-like structures on a leaf?



- A. To give structure to the leaf
- B. To store plant waste material
- C. To attract insects for pollination
- D. To control the temperature of the leaf