

1 What is the missing number in the given box?

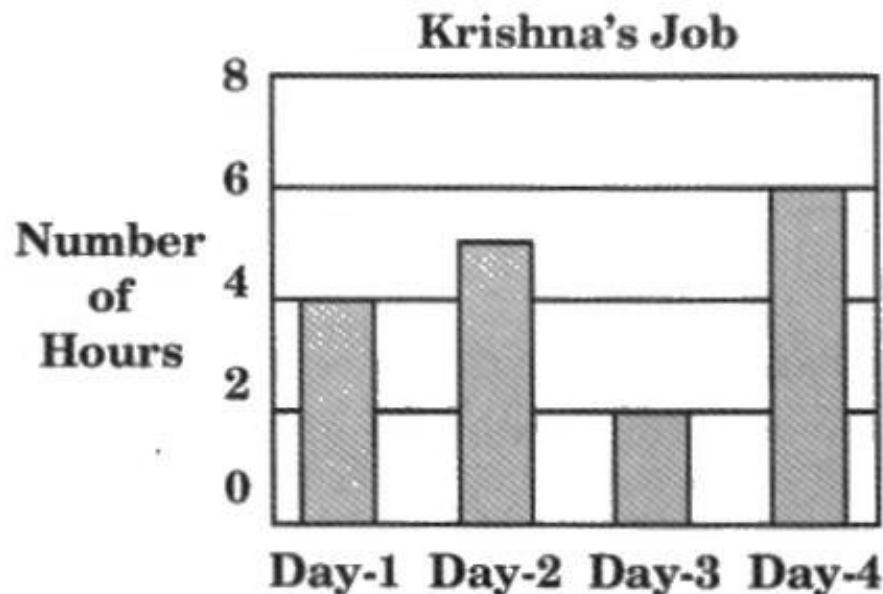
$$168 \times 8 = \boxed{?} \times 8 - 49 \times 8$$

- (A) 99 (B) 119 (C) 125 (D) 217

2 Nani bought 25 packets of balloons. Each packet has 4 balloons. Identify the number sentence that can be used to find the number of balloons Nani bought.

- (A) 25×4 (B) $25 + 4$ (C) $25 - 4$ (D) $4 - 25$

3 Krishna drew the given graph to show the number of hours that he worked for on four days.



If Krishna earned ₹ 60 an hour, how much money did he earn on day-2?

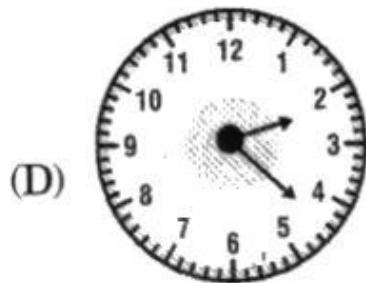
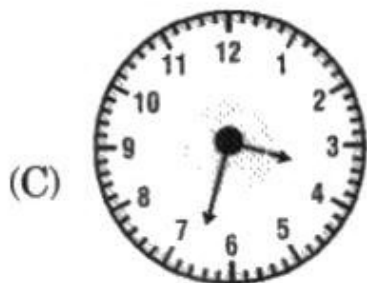
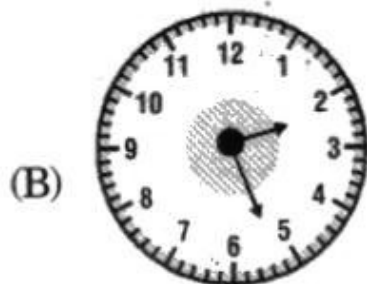
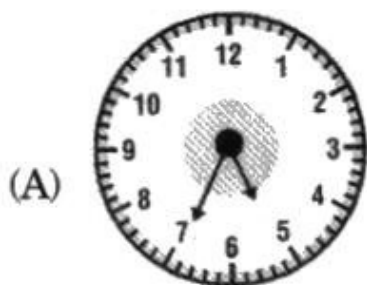
- (A) ₹ 120 (B) ₹ 240 (C) ₹ 300 (D) ₹ 420

4 3 apples cost ₹ 36. The same number of oranges cost twice as much. What is the cost of 9 oranges?

- (A) ₹ 72 (B) ₹ 216 (C) ₹ 156 (D) ₹ 192

5

Varsha's watch was 33 minutes slower when it was 3 p.m. Identify Varsha's watch from the following.



6

Which pair of numbers best completes the equation?

$$\square \times 100 = \bigcirc$$

(A) $\boxed{65}$ and $\bigcirc 650$

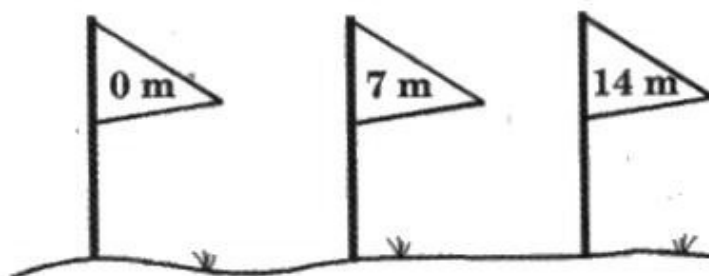
(B) $\boxed{10}$ and $\bigcirc 1000$

(C) $\boxed{7}$ and $\bigcirc 70$

(D) $\boxed{1}$ and $\bigcirc 101$

7

At a running race, flag posts were placed at equal distances, as shown in the given figure.



Find the distance between the second flag post and the sixteenth flag post.

- (A) 105 m (B) 84 m (C) 98 m (D) 91 m

8

Which of the following is the same as nine thousand and ninety nine?

- (A) 9099 (B) 9009 (C) 9090 (D) 9900

9

Observe the given product.

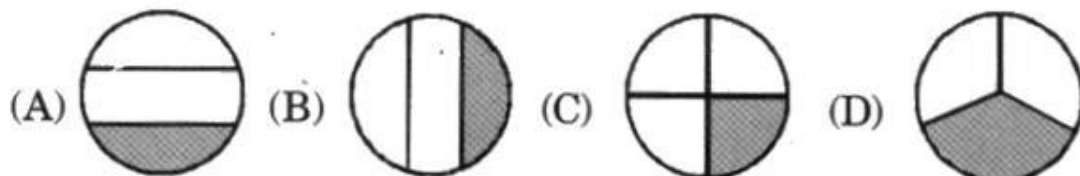
$$\begin{array}{r} 7\triangle 4 \\ \times 8 \\ \hline \triangle 112 \end{array}$$

What is the value of $\triangle \times \triangle$?

- (A) 1 (B) 6 (C) 12 (D) 36

10

Which circle is $\frac{1}{3}$ shaded?



11

A dog ate 56 cans of food in 4 weeks. If the dog ate the same amount of food each week, which number sentence can be used to find the number of cans of food the dog eats in one week?

- (A) 56×7 (B) $56 \div 4$
(C) 56×4 (D) $56 \div 7$

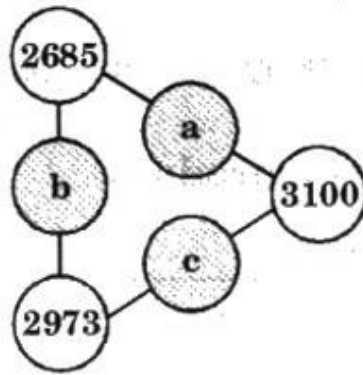
12

Which of the following is the same as 125 seconds?

- (A) 2 minutes 5 seconds (B) 1 minute 5 seconds
(C) 2 hours 5 minutes (D) 12 minutes 5 seconds

13

The numbers on each side of the triangle given in the figure add up to 6500.



What are the values of 'a', 'b' and 'c'?

- (A) $a = 427, b = 715, c = 842$ (B) $a = 842, b = 427, c = 875$
 (C) $a = 842, b = 815, c = 427$ (D) $a = 715, b = 842, c = 427$

14

The table given shows the cost of different number of tennis balls at a store.

Cost of Tennis balls

| Number of Tennis balls | Total Cost (in ₹) |
|------------------------|-------------------|
| 1 | ? |
| 3 | 27 |
| 6 | 54 |
| 9 | 81 |

Based on the information in the table, what is the cost of one tennis ball?

- (A) ₹ 18 (B) ₹ 3 (C) ₹ 6 (D) ₹ 9

15

Look at the numbers in this box.

915, 721, 308, 946, 960, 466

Which of the following is true of the given numbers?

- (A) They are all greater than 500.
 (B) They are all between 100 and 1000.
 (C) They are all less than 900.
 (D) They are all less than 950.

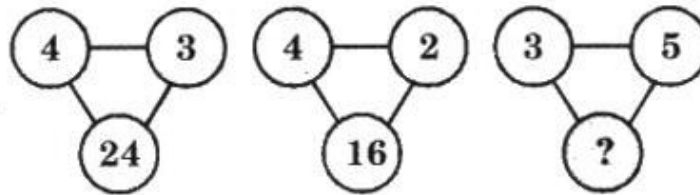
- 16 A jug of capacity 2 litres can be half-filled by pouring 5 full mugs of water into it.



How much water does the mug hold when it is full?

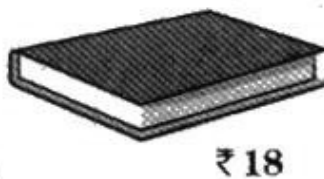
- (A) 500 ml (B) 400 ml (C) 250 ml (D) 200 ml

- 17 What is the missing term?



- (A) 30 (B) 15 (C) 2 (D) 3

- 18 Mani goes to the market with ₹ 20 and buys two of the following items.



How much money will be remaining with him?

- (A) ₹ 2 (B) ₹ 5 (C) ₹ 10 (D) ₹ 13

- 19 What is the missing number in the box?

| | | | |
|----|----|----|----|
| 26 | 17 | 17 | 17 |
| ? | | 34 | |
| 77 | | | |

- (A) 51 (B) 17 (C) 43 (D) 34

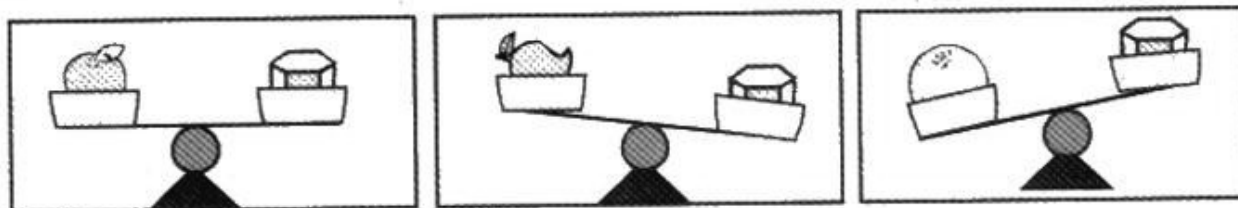
20

The denominator of a fraction is thrice that of the numerator. The sum of the numerator and denominator is 16. Find the fraction.






- (A) $\frac{7}{12}$ (B) $\frac{4}{12}$ (C) $\frac{3}{9}$ (D) $\frac{5}{11}$

21

Observe the given balance.



Identify the heaviest fruit.

- (A)  (B) 
 (C)  (D) Either  or 

22

Rajesh took 3 h 28 minutes for shopping and 4 h 56 minutes to do his homework. How much time did he spend for the two activities?

- (A) 7 h 14 min (B) 7 h 24 min
 (C) 8 h 24 min (D) 8 h 14 min

23

A group of pupils shared 109 stamps. 5 of them shared a total of 45 stamps. The rest had 8 stamps each. How many pupils were there altogether?

- (A) 5 (B) 13 (C) 18 (D) 8

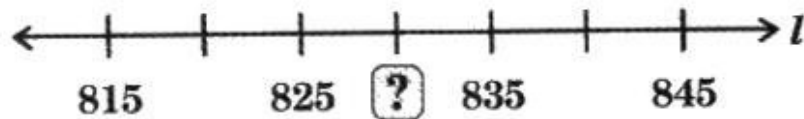
24

If $A = \frac{2}{23}$, $B = \frac{11}{23}$, $C = \frac{5}{23}$ and $D = \frac{3}{23}$, find the value of $(A + B) - (C + D)$.

- (A) $\frac{5}{23}$ (B) $\frac{7}{23}$ (C) $\frac{8}{23}$ (D) $\frac{9}{23}$

25

Look at the number line given.



Which number replaces the question mark on it?

- (A) 820 (B) 826 (C) 830 (D) 834

26

There are 21 girls and 18 boys in each section of class 3. How many students are there in 5 such sections?

- (A) 155 (B) 39 (C) 195 (D) 44

27

If the product of all the three numbers in any row, column or diagonal is the same, find the missing term in the given square.

| | | |
|----|----|----|
| 2 | 36 | 3 |
| 9 | ? | 4 |
| 12 | 1 | 18 |

- (A) 5 (B) 6 (C) 8 (D) 12

28

How many 100's, 10's and ones respectively should be added to get the smallest 3-digit number?

- (A) 0, 0 and 1 (B) 1, 1 and 1
(C) 1, 0 and 0 (D) 1, 1 and 9

29


Which of the following are the equivalent fractions of $\frac{5}{6}$?

- (A) $\frac{10}{12}, \frac{15}{18}, \frac{20}{24}, \frac{25}{30}$ (B) $\frac{4}{12}, \frac{6}{18}, \frac{8}{24}, \frac{10}{30}$
(C) $\frac{5}{15}, \frac{5}{20}, \frac{5}{25}, \frac{5}{30}$ (D) $\frac{14}{24}, \frac{21}{36}, \frac{28}{48}, \frac{35}{56}$

30

Observe the following.


$$+ + = ₹ 30$$


$$+ + = ₹ 28$$


$$+ + = ₹ 18$$

How much does each banana cost?

- (A) ₹ 5 (B) ₹ 8 (C) ₹ 10 (D) ₹ 18

31

In the given rectangular scenery, $AB = 2$ metres.



What is the measure of CD ?

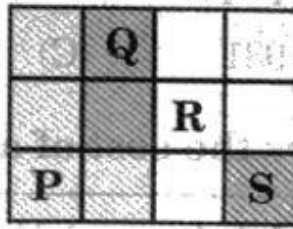
- (A) 1 cm (B) 200 cm (C) 2 cm (D) 30 cm

32

How many times does the digit '0' appear between 1 and 100?

- (A) 9 (B) 10 (C) 11 (D) 12

- 33 The given figure is divided into 4 portions: P, Q, R and S.



Which 2 portions add up to form $\frac{3}{4}$ of the figure?

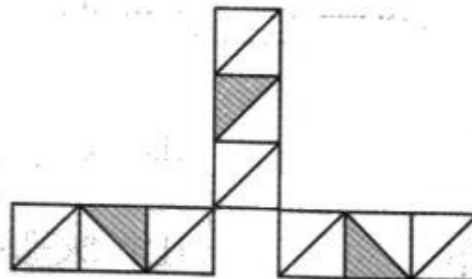
- (A) P and Q (B) P and R
 (C) Q and R (D) Q and S
- 34 Chitra is 15 years 4 months old. Her sister is 4 years 10 months younger than her. How old is her sister?

- (A) 10 years 6 months (B) 10 years 10 months
 (C) 4 years 10 months (D) 10 years 4 months

- 35 Radhika wants to buy a videogame that costs ₹ 205. She has saved ₹ 147. How much more money does she need to buy the videogame?

- (A) ₹ 158 (B) ₹ 58
 (C) ₹ 68 (D) ₹ 168

- 36 How many more parts must be shaded to make the figure $\frac{2}{3}$ shaded?



- (A) 9 (B) 18 (C) 24 (D) 23

37

938 copies of newspaper were sold in a week. How many copies of newspaper are sold in a day if the same number of newspapers are sold everyday?

- (A) 63 (B) 931 (C) 134 (D) 6566

38

The board shows the cost of a ticket at a theatre.

| | |
|-------|--------|
| Adult | : ₹ 10 |
| Child | : ₹ 4 |

How much does it cost for 4 adult and 3 child tickets?

- (A) ₹ 52 (B) ₹ 28 (C) ₹ 60 (D) ₹ 120

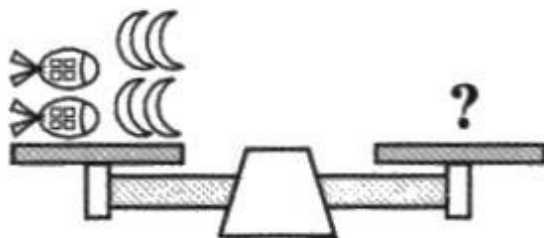
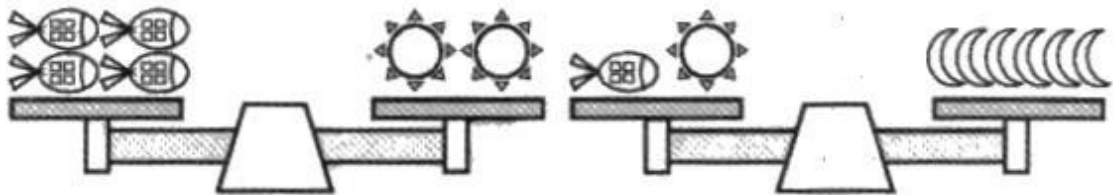
39

From the number 324, if a boy chooses the digit 4, he gets to occupy the fourth place; if he chooses 3, he gets the 300th place. Which place should he occupy if he chooses 2?

- (A) 200th (B) 2nd (C) 2000th (D) 20th

40

Which of the following are needed to balance the scale?



- (A)  (B) 
- (C)  (D) 

- 41 Shreya observed that her pet dog has the following characteristics.

- (i) It has a soft body.
 (ii) It eats meat.
 (iii) On a hot day, it hangs its tongue out of its mouth.
 (iv) It gave birth to a litter of puppies last year.

Which of these characteristics show that her dog is a living thing?

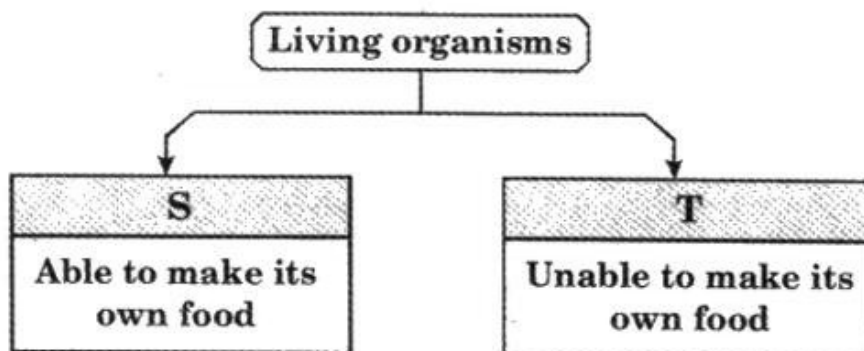
- (A) Only (ii) and (iv) (B) Only (i), (ii) and (iii)
 (C) Only (ii), (iii) and (iv) (D) All of these

- 42 What do 1, 2, 3 and 4 in the given process represent?

Water $\xrightarrow{1}$ Steam $\xrightarrow{2}$ Water $\xrightarrow{3}$ Ice $\xrightarrow{4}$ Water

| | 1 | 2 | 3 | 4 |
|-----|------|------|------|------|
| (A) | Heat | Cool | Cool | Heat |
| (B) | Heat | Cool | Heat | Heat |
| (C) | Heat | Heat | Cool | Heat |
| (D) | Cool | Cool | Heat | Cool |

- 43 Study the classification shown.



Which of the following are most likely to be 'S' and 'T'?

| | S | T |
|-----|----------|----------|
| (A) | Mushroom | Yeast |
| (B) | Yeast | Mushroom |
| (C) | Fern | Mould |
| (D) | Mould | Fern |

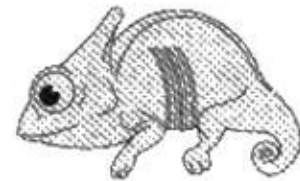
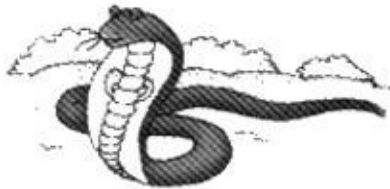
44

Which of the following animals and their shelters is paired correctly?

- (A) Horse – Stable (B) Lion – Shed
(C) Cow – Kennel (D) Rabbit – Den

45

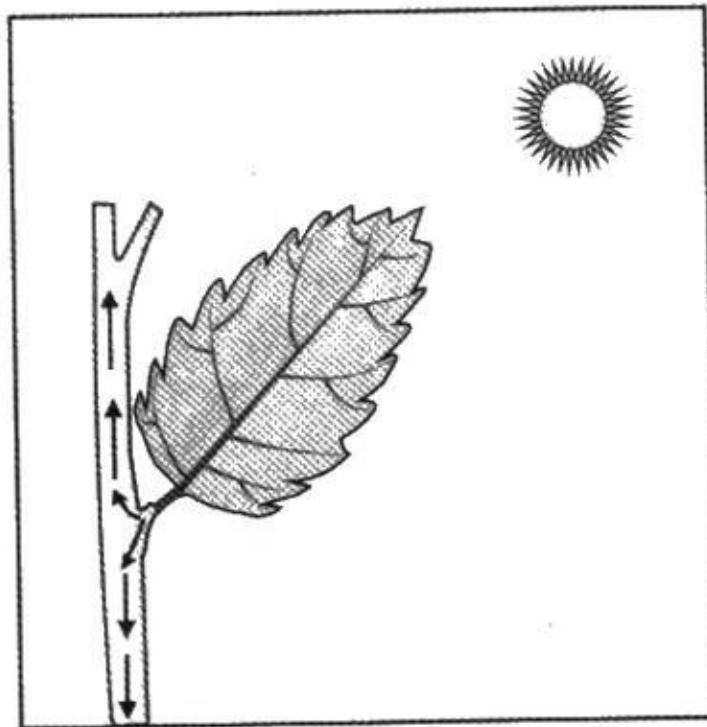
How are these animals similar?



- (A) They all move in the same way.
(B) They swallow their food without chewing.
(C) They have the same body covering.
(D) They are herbivores.

46

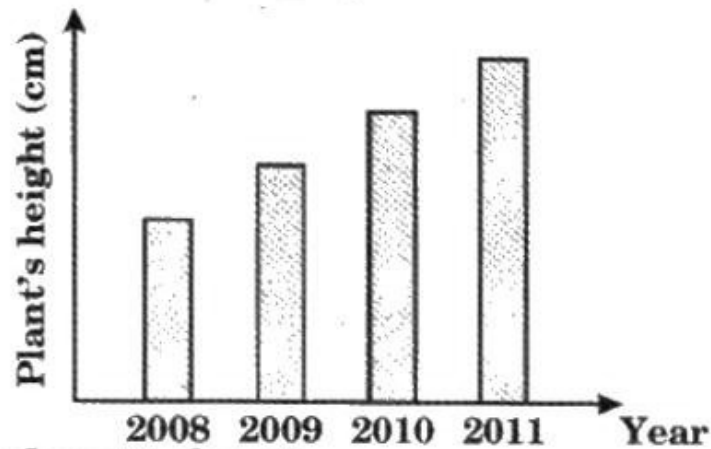
The arrows in the given diagram show the path taken by



- (A) sunlight. (B) water.
(C) carbon dioxide. (D) food.

47

Observe the given graph.



What does it show?

- (A) Plants respond to changes. (B) Plants can move.
 (C) Plants can reproduce. (D) Plants can grow.

48

Look at the following classification table.

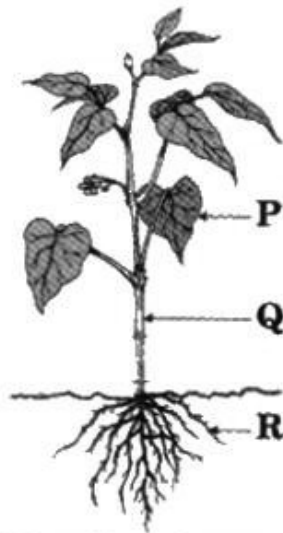
| Lives on land | Lives in water | Lives on land and in water |
|---------------|----------------|----------------------------|
| Dog | Fish | X |

Which of the following could 'X' be?

- (A) Lion (B) Vulture (C) Frog (D) Cat

49

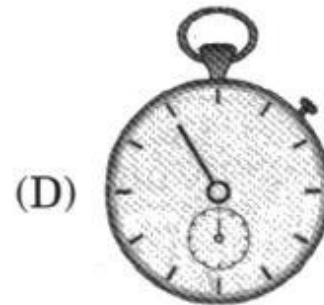
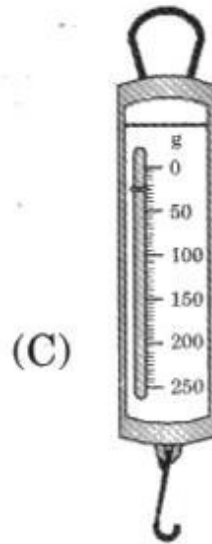
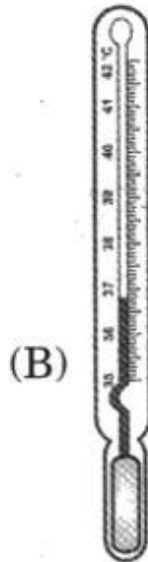
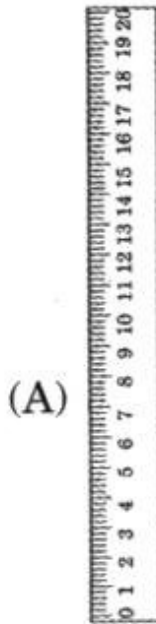
Which of these statements is TRUE about the labelled parts of plant?



- (A) Q makes food for the plant.
 (B) P anchors the plant into the ground.
 (C) A fruit is formed from R.
 (D) We get potato from Q part of potato plant and radish from R part of a radish plant.

50

Which instrument should be used to measure how hot the water in the vessel is?



51

Which of these places is suitable to fly kites?

(A) Roads

(B) Open terraces

(C) Pavements

(D) Open grounds

52

Which of the following statements are true about all birds?

(i) They are covered with feathers.

(ii) They can fly.

(iii) They have beaks.

(iv) They are plant and animal eaters.

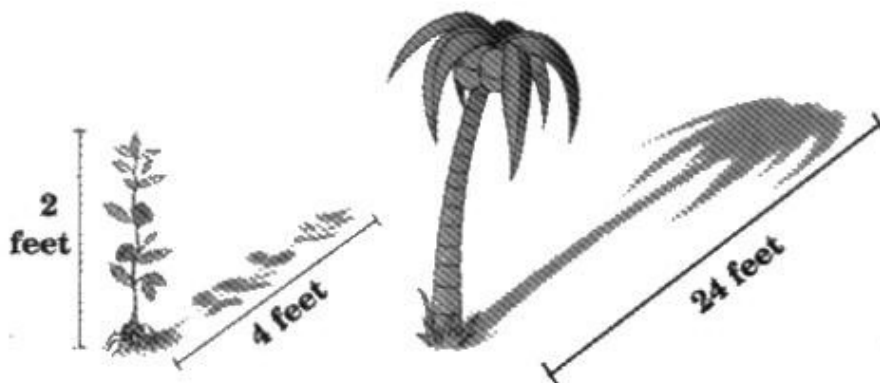
(A) Only (i) and (iii)

(B) Only (i), (ii) and (iv)

(C) Only (i) and (iv)

(D) All of these

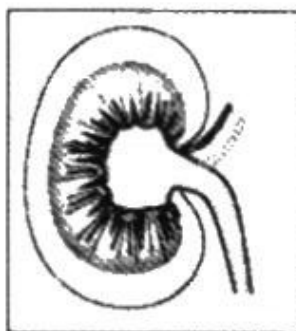
- 53 → The given diagram shows the length of the shadow as double the height of the object.



Find the height of the coconut tree.

- (A) 10 feet (B) 12 feet (C) 16 feet (D) 18 feet

- 54 → Identify the given organ and its organ system.



- (A) Heart-Circulatory system (B) Lung-Respiratory system
(C) Kidney-Excretory system (D) Stomach-Digestive system

- 55 → Which of the following is/are in the gaseous state of matter?

P - Water vapour Q - Ice cream
R - Mango juice S - Steam

- (A) Only P and R (B) Only P and S
(C) Only Q and R (D) Only R and S

- 56 → Which layer of the soil contains humus?

- (A) Sub soil (B) Bed rock soil
(C) Top soil (D) Sand

- 57 → Which of these is a living part in a forest?

- (A) Soil (B) Earthworm
(C) Air (D) Humus

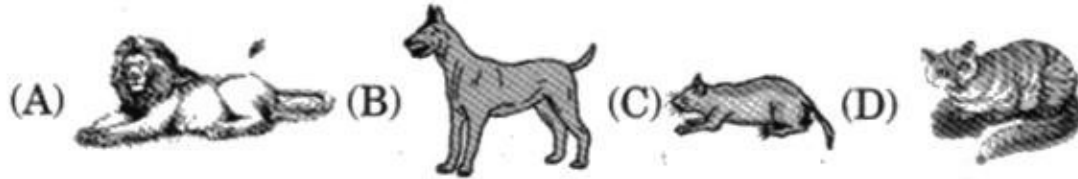
58

What is the function of a leaf?

- (A) Produce seeds (B) Produce flowers
(C) Synthesise food (D) Absorb water

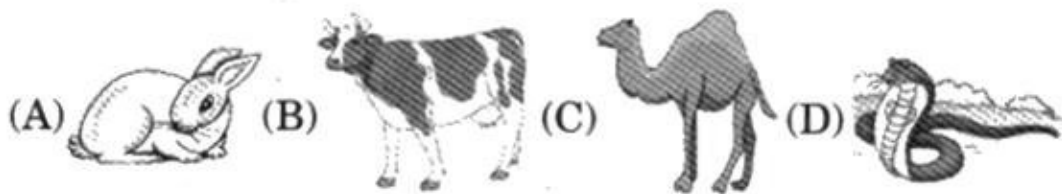
59

Which of the following has gnawing teeth?



60

Which of the following is a carnivore?



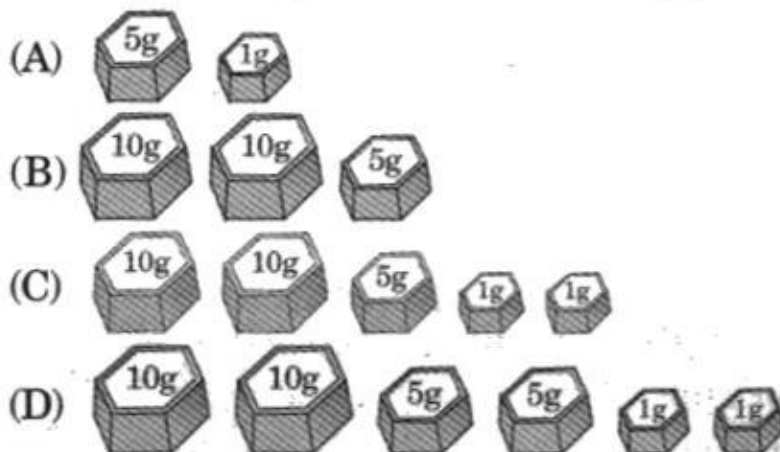
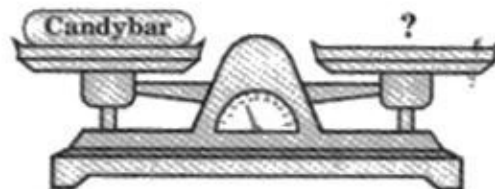
61

Which of the following is the best way to dispose waste water from our kitchen?

- (A) Using it as drinking water.
(B) Using it as bathing water.
(C) Using it for watering plants.
(D) Letting it to stagnate on the road.

62

Which row of weights have a mass equal to 32 grams of candy bar?



63 The table shows how fruits can be classified.

| Fruit | One seed | A few seeds |
|------------|----------|-------------|
| Edible | P | Q |
| Non-edible | R | S |

In which box would you place a ripe mango?

- (A) P (B) Q (C) R (D) S

64 Richa wants to buy a piece of soft and bright coloured cloth to make some cushion cover. Which sense organs would she use to choose the piece of cloth?

| | |
|----------|------------|
| P - Skin | Q - Tongue |
| R - Ears | S - Eyes |

- (A) Only P and Q (B) Only P and S
(C) Only P, Q and R (D) Only Q, R and S

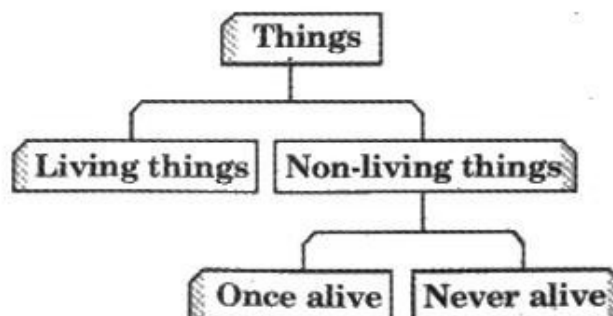
65 Which of the following classification is incorrect?

| | Digestive System | Skeletal System |
|-----|------------------|-----------------|
| (A) | Oesophagus | Skull |
| (B) | Mouth | Rib cage |
| (C) | Large intestine | Bones |
| (D) | Nostril | Heart |

66 Which of these is a flightless bird that can run very fast?

- (A) Peacock (B) Ostrich (C) Crow (D) Pigeon

67 Look at the classification chart.



Which of these objects cannot be classified as 'Once alive'?

- (A) Ceramic cup (B) Paper bag
(C) Rubber mat (D) Leather belt

68

The animals shown can be grouped together because all of them



- (A) have webbed feet.
- (B) live in cold places.
- (C) have strong, sharp hooked beak.
- (D) are perching birds.

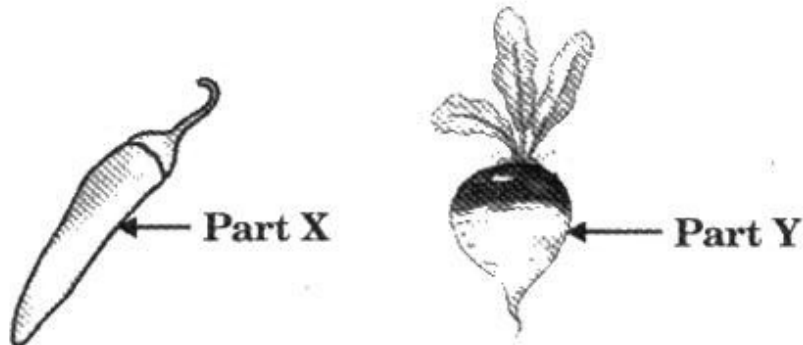
69

Where does the sun rise first?

- (A) In places in the north.
- (B) In places in the south.
- (C) In places in the east.
- (D) In places in the west.

70

Which plant parts are shown in the given diagram?



| | Part X | Part Y |
|-----|--------|--------|
| (A) | Root | Stem |
| (B) | Fruit | Fruit |
| (C) | Seed | Root |
| (D) | Fruit | Root |

71

Which of these reflects sunlight at night?

- (A) The earth (B) The moon
(C) A star (D) A planet

72

The tail of a bird helps it to

- (A) fly fast. (B) fly slow.
(C) fly high. (D) change direction.

73

Look at the groups in the table carefully.

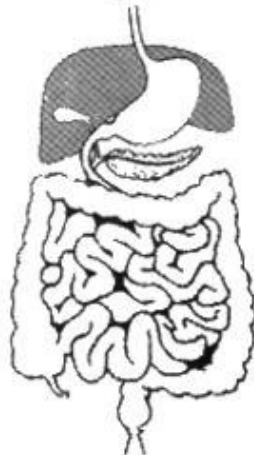
| Plant Eater | Animal Eater |
|-------------|--------------|
| Bee | Lion |
| Giraffe | Tiger |

If an animal 'P' can be placed in both the groups, which of the following animals can 'P' be?

- (A) Goat (B) Rabbit (C) Bear (D) Snake

74

Identify the given diagram.



- (A) Circulatory system (B) Respiratory system
(C) Digestive system (D) Muscular system

75

A bat is a living thing as it

- (A) has weight. (B) is matter.
(C) can be seen. (D) needs to eat.

●●● ————— **Key for NSTSE-2014** ————— ●●●

| | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. D | 2. A | 3. C | 4. B | 5. B | 6. B | 7. C | 8. A | 9. D | 10. D |
| 11.B | 12. A | 13.D | 14. D | 15. B | 16. D | 17. A | 18. B | 19. C | 20. B |
| 21.C | 22. C | 23. B | 24. A | 25. C | 26. C | 27. B | 28. C | 29. A | 30. A |
| 31.B | 32. A | 33. B | 34. A | 35. B | 36. A | 37. C | 38. A | 39. D | 40. A |
| 41.C | 42. A | 43. C | 44. A | 45. B | 46. D | 47. D | 48. C | 49. D | 50. B |
| 51.D | 52. A | 53. B | 54. C | 55. B | 56. C | 57. B | 58. C | 59. C | 60. D |
| 61.C | 62. D | 63. A | 64. B | 65. D | 66. B | 67. A | 68. C | 69. C | 70. D |
| 71.B | 72. D | 73. C | 74. C | 75. D | | | | | |