

# National Level Science Talent Search Examination - 2013

**Class : III**

**Mathematics**

**1** How many days are there in 7 weeks 6 days?

- (A) 55 days (B) 52 days  
(C) 49 days (D) 48 days

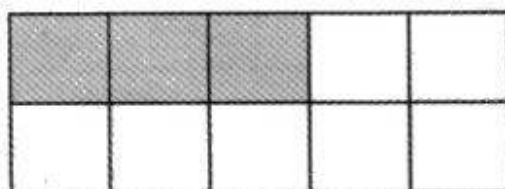
**2** Which of the following has the greatest quotient?

- (A)  $48 \div 6$  (B)  $63 \div 7$   
(C)  $56 \div 8$  (D)  $36 \div 9$

**3** A decorative ribbon is 1370 cm long. 8 gifts were decorated with some of the ribbon. Each gift requires 35 cm of the ribbon. How long is the remaining ribbon?

- (A) 1 m 90 cm (B) 19 m 10 cm  
(C) 10 m 90 cm (D) 9 m 10 cm

**4** What fraction does the shaded part represent?



- (A)  $\frac{3}{10}$  (B)  $\frac{2}{5}$  (C)  $\frac{3}{5}$  (D)  $\frac{2}{10}$

**5** Which of the following is the correct arrangement of numbers from the greatest to the smallest?

- (A) 123, 213, 321 (B) 253, 465, 793  
(C) 644, 732, 542 (D) 746, 647, 467

6

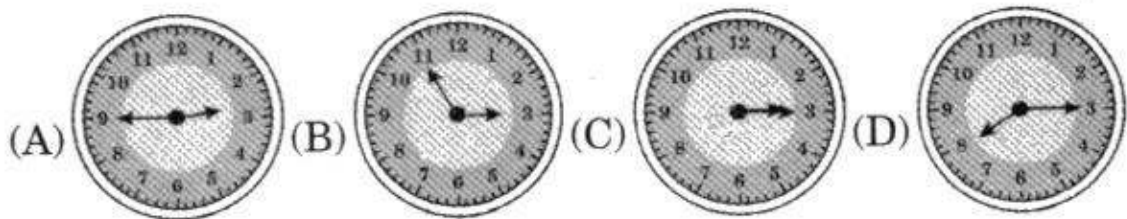
What is the missing number in the box?

$$\begin{array}{r} 4 \boxed{?} 8 \\ \times 9 \\ \hline 3672 \end{array}$$

- (A) 3 (B) 0 (C) 1 (D) 4

7

Which of these clocks shows quarter to 3?



8

Find the missing number.

$$570 + 430 = \boxed{?} \text{ tens}$$

- (A) 57 (B) 43 (C) 1000 (D) 100

9

Raj ate half of his cake and cut the remaining into 8 equal pieces. He gave 3 pieces of the cake to his friends.



What fraction of the cake is he left with?

- (A)  $\frac{1}{16}$  (B)  $\frac{5}{16}$  (C)  $\frac{5}{8}$  (D)  $\frac{1}{2}$

**10** Observe the given equations.

$$\begin{array}{l} \text{(i)} \quad \square - \bigcirc = 6 \\ \text{(ii)} \quad \bigcirc + \bigcirc = 2 \end{array}$$

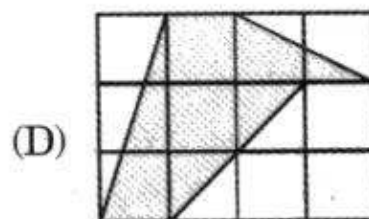
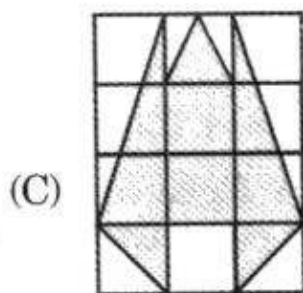
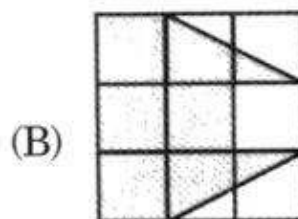
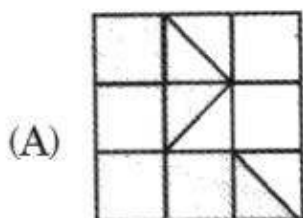
Which of the following is also correct?

- (A)  $\square \times \bigcirc = \square$       (B)  $\bigcirc \times 2 = \bigcirc$   
(C)  $\square + \square = 12$       (D)  $\square + \bigcirc = \square$

**11** What is 3 nines less than 8 hundreds?

- (A) 739      (B) 782      (C) 773      (D) 770

**12** Which of the following has the greatest shaded area?



**13** Study the division given in the box.

$$458 \div 7$$

What is the difference between its quotient and remainder?

- (A) 68      (B) 3      (C) 65      (D) 62

14

Venu had ₹ 252. He spends ₹ 43 on Monday and twice as much money on Tuesday. He spends ₹ 98 on Wednesday. How much money is Venu left with?

- (A) ₹ 25      (B) ₹ 98      (C) ₹ 86      (D) ₹ 113

15

The number of girls in a singing competition is 1029 more than the number of boys. If 4233 girls participated in the competition, find the total number of participants.

- (A) 4377      (B) 7437      (C) 7347      (D) 7743

16

Which of the following are equal?

- (i) 3400 ones  
(ii) 43 hundreds  
(iii) 340 tens  
(iv) 34 hundreds

- (A) (i), (ii) and (iv)      (B) (i), (ii) and (iii)  
(C) (ii), (iii) and (iv)      (D) (i), (iii) and (iv)

17

The owner of a computer shop sold 756 computers in January, 1005 computers in February and 483 computers in March. How many computers did he sell in all?

- (A) 2442      (B) 2424      (C) 2244      (D) 3244

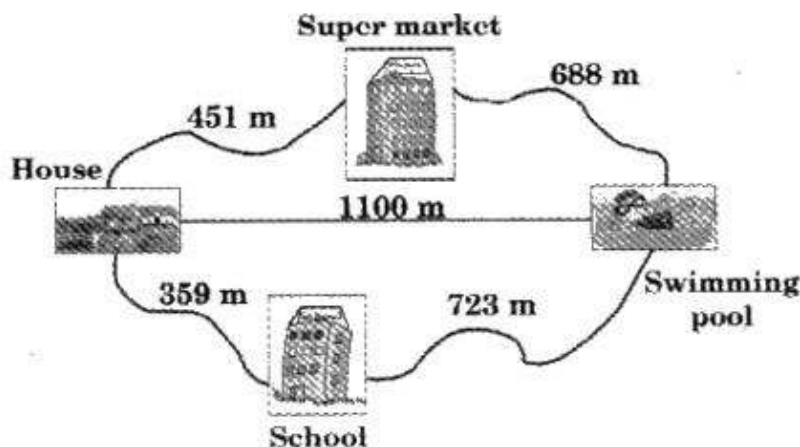
18

How many 9's are there in 1539?

- (A) 191      (B) 171      (C) 101      (D) 153

19

Bhanu wants to go to the swimming pool from his house.

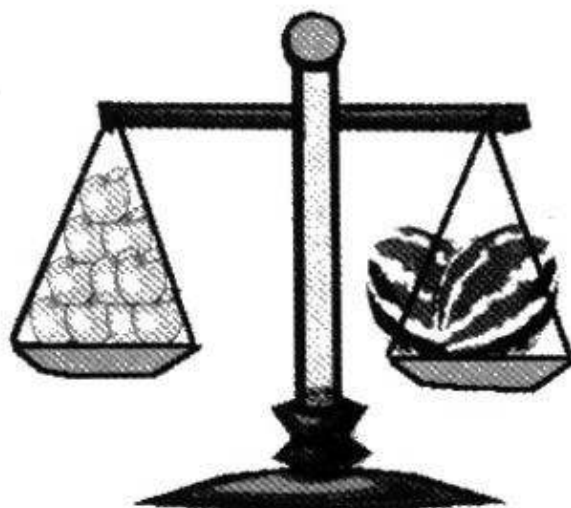


If he took the longest route shown in the given figure, how many metres would he travel?

- (A) 1139 m (B) 1082 m (C) 1100 m (D) 1174 m

20

10 apples weigh the same as 2 melons.



How many melons would weigh the same as 25 apples?

- (A) 4 (B) 5 (C) 6 (D) 3

21

In the number given, which digit has the highest place value?

1 9 3 8


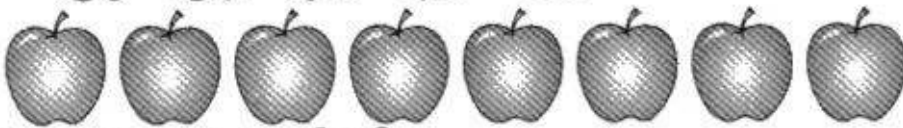
- (A) 8 (B) 9 (C) 1 (D) 3

22

A shopkeeper packed 360 biscuits in 12 boxes. What is the number of biscuits in each box?

- (A) 30 (B) 20 (C) 25 (D) 13

23

If  stand for 50 apples, then  stand for how many apples?

- (A) 8 (B) 30 (C) 130 (D) 80

24

The weight of the basket is 1725 g.



What is the weight of the fruits?

- (A) 6 kg 875 g (B) 4 kg 875 g (C) 6 kg 600 g (D) 4 kg 600 g






25

Sunitha can type 120 words in 5 minutes. How many words can she type in 3 minutes?

- (A) 72 (B) 48 (C) 24 (D) 36

26

Observe the following.

				
₹ 13	₹ 93	₹ 2	₹ 5	₹ 8

Which item cannot be bought if you have only ₹ 20?

- (A) A cup of coffee (B) An eraser  
(C) A football (D) A lollipop

27

Sruthi saves ₹ 1.50 everyday from her pocket money. How much does she save in 10 days?

- (A) ₹ 16 (B) ₹ 15 (C) ₹ 20 (D) ₹ 25

28

Which number is missing in the pattern given?



- (A) 6 (B) 4 (C) 1 (D) 7

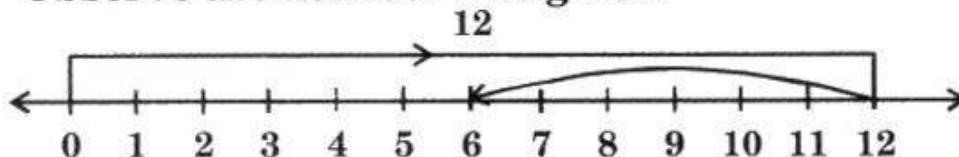
29

4 spoons cost ₹ 6.40 and 3 forks cost ₹ 5.40. How much more does a fork cost than a spoon?

- (A) ₹ 1.80 (B) ₹ 1.60 (C) ₹ 0.20 (D) ₹ 0.60

30

Observe the number line given.

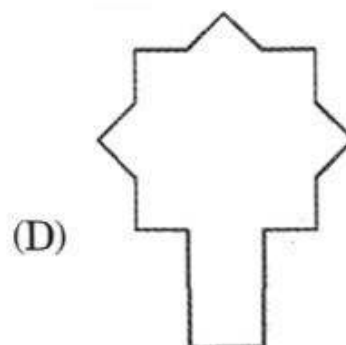
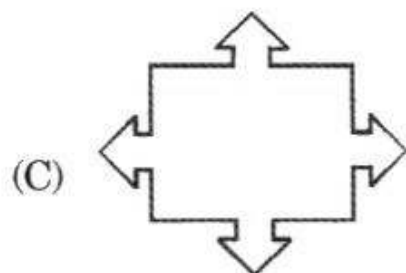
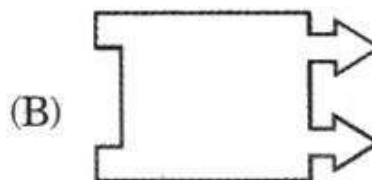
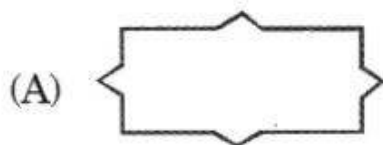


Which operation does the number line represent?

- (A)  $12 + 6 = 18$  (B)  $6 + 6 = 12$  (C)  $12 - 6 = 6$  (D)  $12 - 4 = 8$

31

Vijay formed a figure using only 2 squares and 1 rectangle. Which of these figures is it?





32

9 similar mobile phones cost as much as 4 similar laptops. If each mobile phone costs ₹ 1400, find the total cost of 5 such laptops.

(A) ₹ 28350

(B) ₹ 15750

(C) ₹ 12600

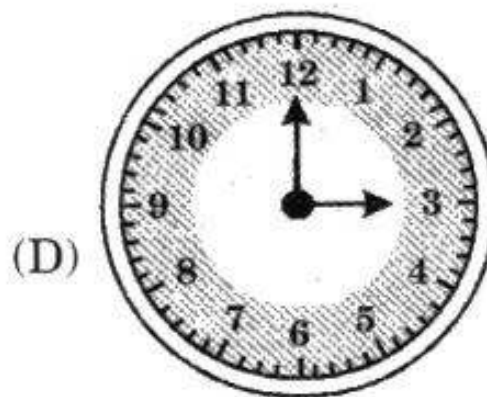
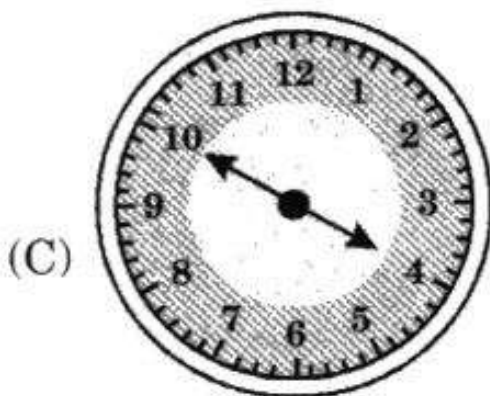
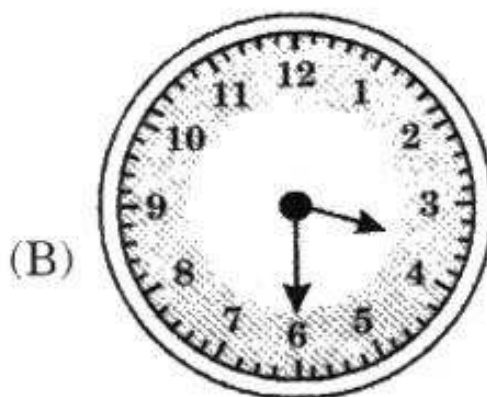
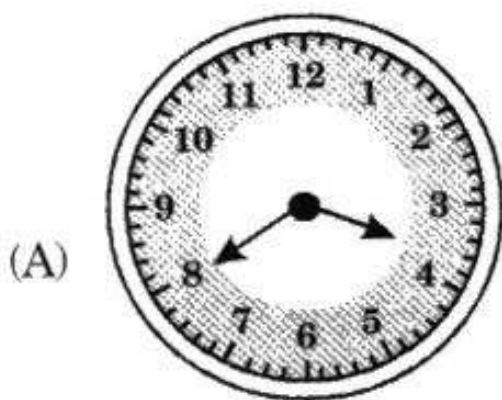
(D) ₹ 31500

33

The clock shows the present correct time.



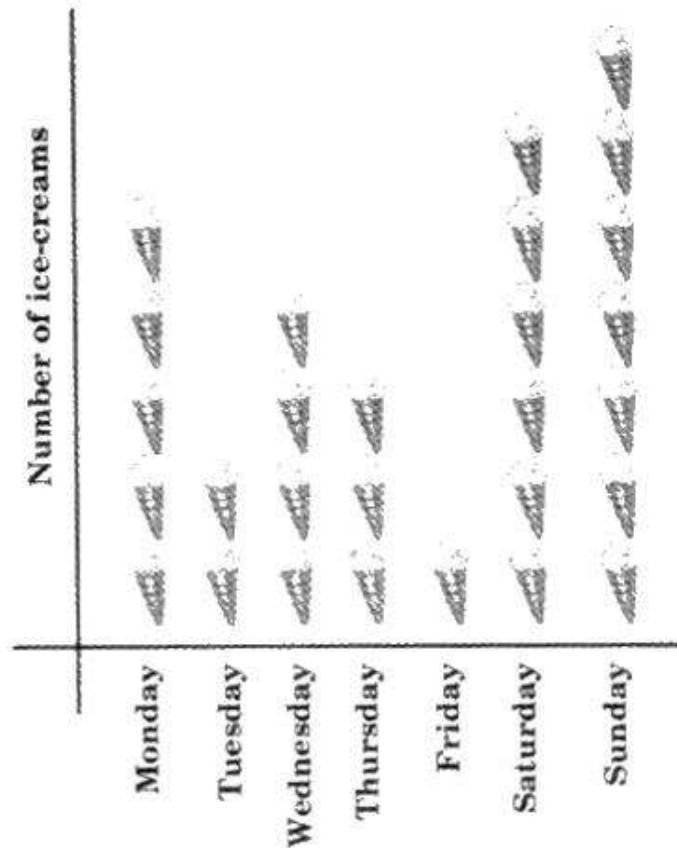
Which clock shows the time 1 hour 40 minutes ago?






34

The following pictograph shows the number of ice-creams sold at a bakery in a week.



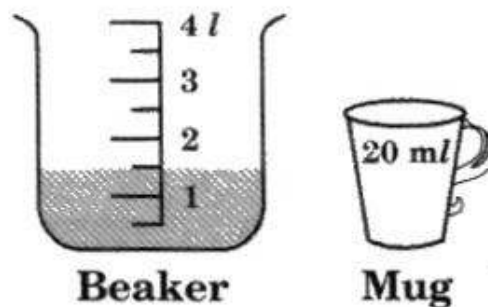
Each  represents 10 ice-creams.

On which day were the maximum number of ice - creams sold?

- (A) Saturday (B) Sunday  
(C) Tuesday (D) Friday

35

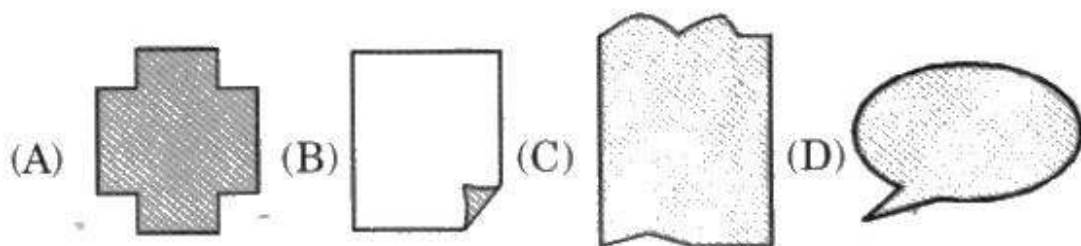
How many mugs of water are needed to fill the beaker to the 4 litre mark?



- (A) 1500 (B) 125 (C) 250 (D) 2500

36

Which of the following shapes can be divided into two EQUAL parts by a dotted line?



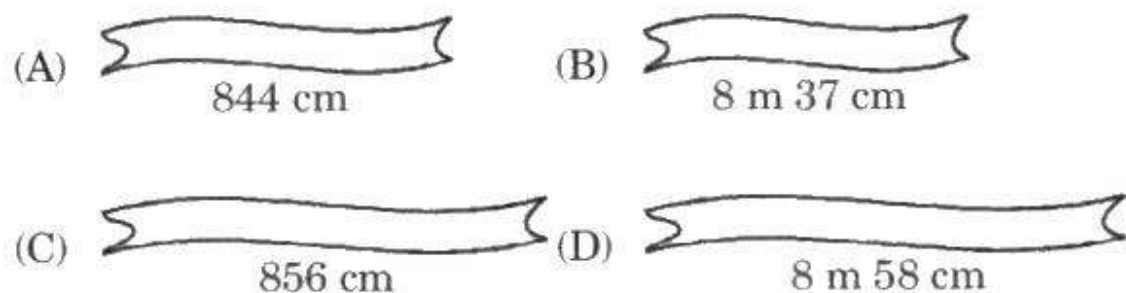
37

Asha bought 2 apples for ₹ 18. What is the total price of 5 apples at that rate?

- (A) ₹ 28 (B) ₹ 90 (C) ₹ 36 (D) ₹ 45

38

Which ribbon is the shortest?



39

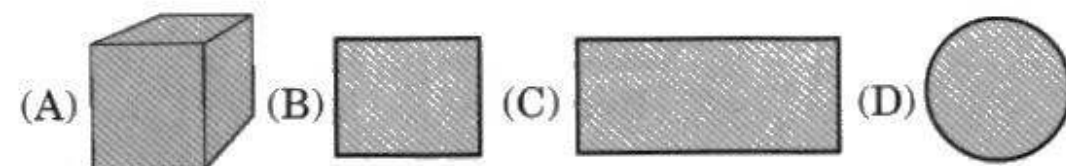
What is the fraction of prime numbers in the given table?

390	51	24	36
35	102	30	17
2	56	29	39

- (A)  $\frac{3}{4}$  (B)  $\frac{7}{12}$  (C)  $\frac{7}{9}$  (D)  $\frac{1}{4}$

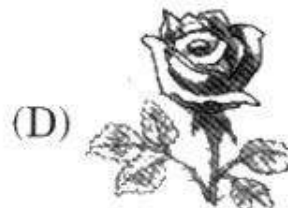
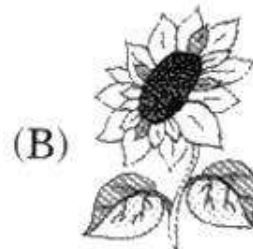
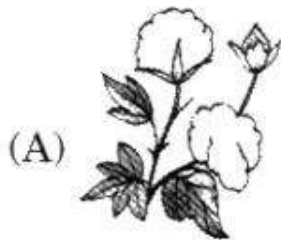
40

Which shape has the least number of corners?



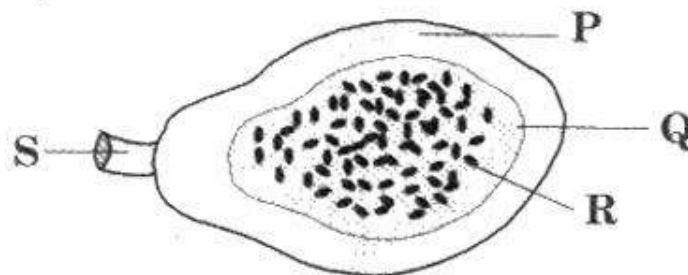
41

Which of the following flowering plants responds to the stimulus of the sunlight?



42

The diagram given shows the cross section of a papaya fruit.

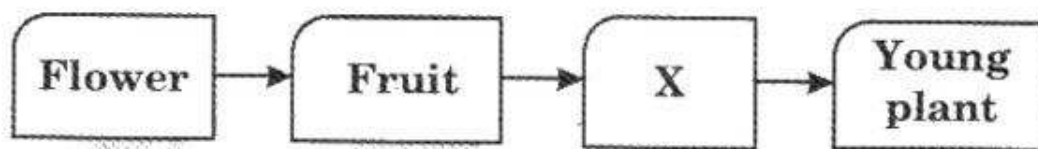


Under suitable conditions which of the labelled parts of the papaya grows into a new plant?

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

43

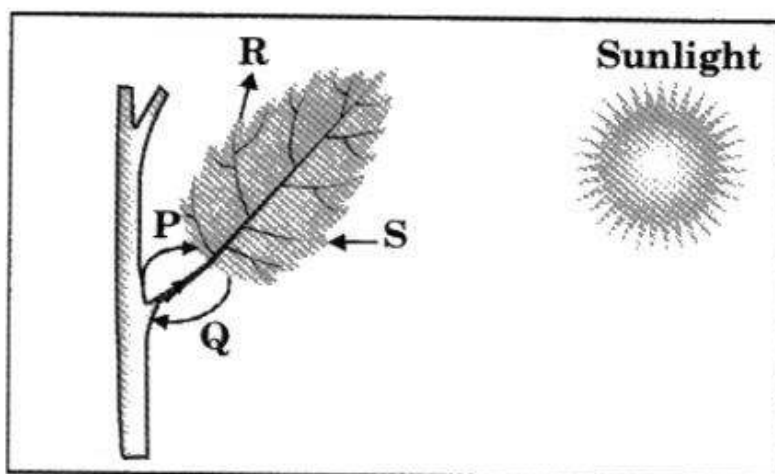
Identify 'X' in the given flow chart.



- (A) Seed      (B) Stem  
(C) Root      (D) Leaf

44

The diagram given shows a leaf making food.



What do the arrows P, Q, R and S represent?

	P	Q	R	S
(A)	Water	Food	Carbon dioxide	Oxygen
(B)	Water	Food	Oxygen	Carbon dioxide
(C)	Oxygen	Carbon dioxide	Water	Food
(D)	Food	Water	Oxygen	Carbon dioxide

45

The following table gives some examples of living things and non-living things.




Living things	Non-living things
Animals	The sun
Birds	Stars
Clouds	Rocks

Which of the following is under the **INCORRECT** heading?

- (A) Birds      (B) Rocks      (C) Clouds      (D) Stars

46

Match the parts of the plant in Column-I with their functions in Column-II.

	Column-I		Column-II
i.		p.	Supports the plant
ii.		q.	Anchors the plant to the ground
iii.		r.	Helps in the exchange of gases

(A) i - q, ii - p, iii - r

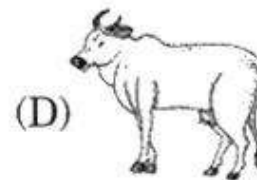
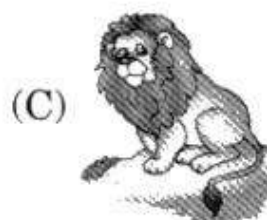
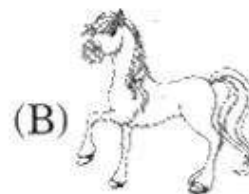
(B) i - q, ii - r, iii - p

(C) i - r, ii - q, iii - p

(D) i - p, ii - q, iii - r

47

Which of the following animals is kept in a shed?



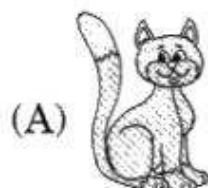
48

Which of the following is the reproductive part of a plant that develops into a fruit?

(A) Flower (B) Leaf (C) Root (D) Stem

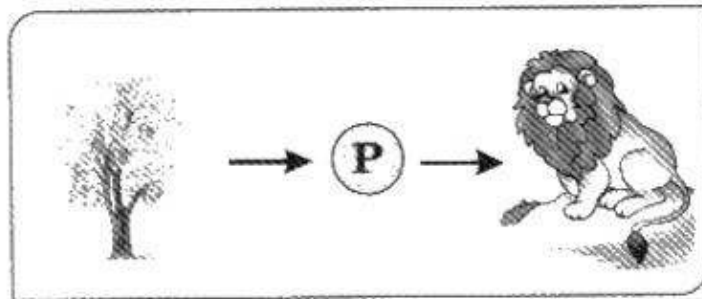
49

Which of these animals swallows its food as a whole?



50

Observe the following figure. The arrow sign ( $\rightarrow$ ) means “is eaten by”.



Which of the following animals can ‘P’ be?

- (A) Frog
- (B) Fox
- (C) Deer
- (D) Jackal

51

Which of these will help us in keeping our surroundings clean?

- (A) Walking on footpaths.
- (B) Watering plants daily.
- (C) Throwing waste in a dustbin.
- (D) Removing the petals of a flower.

52

Shreya has carrot, onion, ginger and potato plants in her garden. The roots of which of these plants do we eat?

- (A) Carrot
- (B) Ginger
- (C) Onion
- (D) Potato

53

When we touch a hot plate with our hands we drop it.



Which of these systems helps us to sense that the plate is hot?

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

54

Which of the following games helps us in building strong bones and muscles and in having a healthy body?

- (A) Carrom board
- (B) Chess
- (C) Basket ball
- (D) Snake and ladders

55

What kind of soil does a potter use in making pots?



- (A) Clay
- (B) Sand
- (C) Loam
- (D) Sandy loam

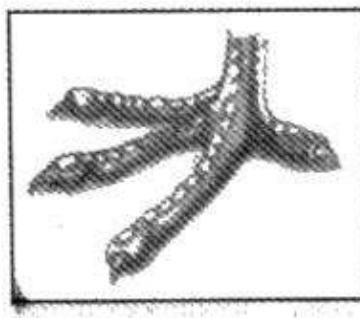
56

Which of these damage buildings, trees and electric poles?

- (A) Breeze
- (B) Storm
- (C) Slow wind
- (D) Both (A) and (C)

57

The foot of a bird is given in the box.



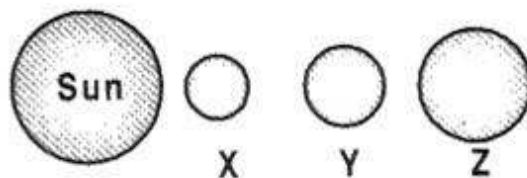
Which of these birds given can have this foot?

- (A) Hen
- (B) Eagle
- (C) Sparrow
- (D) Duck



58

The given figure shows the three nearest planets to the sun in the solar system.



What are planets X, Y and Z?

	X	Y	Z
(A)	Venus	Earth	Mercury
(B)	Mercury	Venus	Earth
(C)	Venus	Mercury	Earth
(D)	Mercury	Earth	Venus

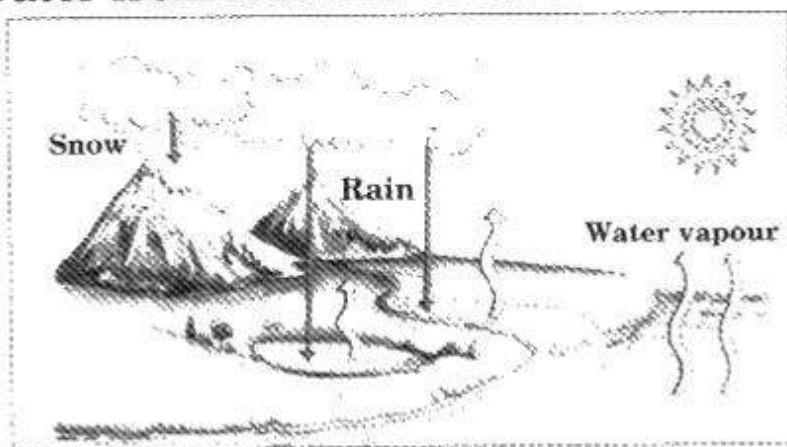
59

Digestion is the breaking down of food material by a living being into chemically simpler forms. In the human body where does digestion end?

- (A) Food pipe (B) Stomach  
(C) Small intestine (D) Large intestine

60

The water cycle given in the box shows the evaporation of water from seas and oceans.



Why does water vapour rise upwards?

- (A) It is cooler than the surrounding air.  
(B) It is heavier than the surrounding air.  
(C) It is lighter than the surrounding air.  
(D) It is attracted by the clouds in the sky.

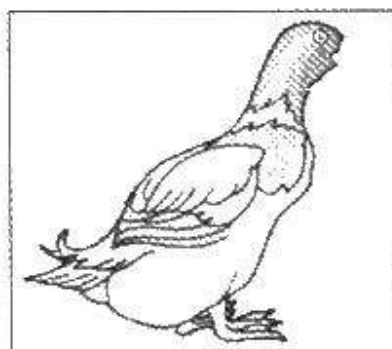
61

Which of these is true about soil?

- (A) Soil is always black in colour.
- (B) Soil is of same kind.
- (C) Soil is of different kinds.
- (D) Both (A) and (B)

62

The beaks of birds can tell us what they eat, and how they eat it. Here is a picture of a bird whose beak is missing. This bird feeds on worms, insects and small water plants.



Which of the beaks given can this bird have?



63

Observe the given table.

Solid	Liquid	Gas
Pencil	Orange juice	Steam
Eraser	Water	Ice cube

Which of these has been put under the **INCORRECT** heading?

- (A) Eraser
- (B) Orange juice
- (C) Steam
- (D) Ice cube

64

Which of the following gives the measure of the weight of a book?

- (A) Grams
- (B) Litres
- (C) Degree celsius
- (D) Seconds

65

How does the sunlight help us at home?

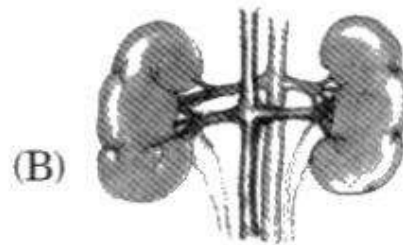
- (A) By preventing cats from entering rooms.
- (B) By keeping rooms free from dust.
- (C) By keeping rooms free from germs
- (D) By preventing rats from entering rooms.

66

Which of these is an organ of the respiratory system?



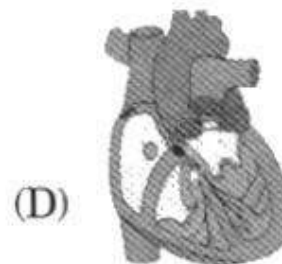
Lungs



Kidneys



Brain



Heart

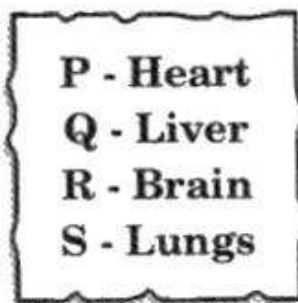
67

Which of these figures indicates zebra crossing?



68

Which of these organs are protected by the rib cage?



(A) P and Q

(B) Q and R

(C) P and S

(D) P, Q and R

69

Which of these birds does not make its own nest?

(A) Partridge

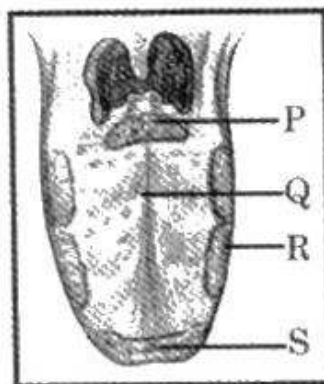
(B) Wood pecker

(C) Owl

(D) Cuckoo

70

Which of the labelled parts of our tongue detects the bitter taste?



(A) P

(B) Q

(C) R

(D) S

71

Which of these statements is a good description about your neck?

(A) I am a part on the end of the arms and I am used for picking and keeping the things.

(B) I am the organ for watching things.

(C) I am a part of your body that connects the head with the trunk.

(D) I am the part that supports the body and helps in movement.

72

Which of these is a harmful effect of burning waste material in open spaces?

- (A) It causes a big fire.
- (B) It causes water pollution.
- (C) It causes air pollution.
- (D) It causes soil pollution.

73

Abhi had a torn umbrella.



Which of the following materials should Abhi use to repair the umbrella?

- (A) A piece of cardboard.
- (B) A piece of newspaper.
- (C) A piece of sweater.
- (D) A piece from an old rain coat.

74

Which of these gives the correct measurement of the length of the classroom?

- (A) Foot steps
- (B) Handspan
- (C) Measuring tape
- (D) Balance

75

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

- (A) Use it as drinking water.
- (B) Use it for bathing.
- (C) Use it for watering plants.
- (D) Let it flow on the road.