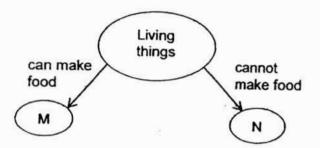
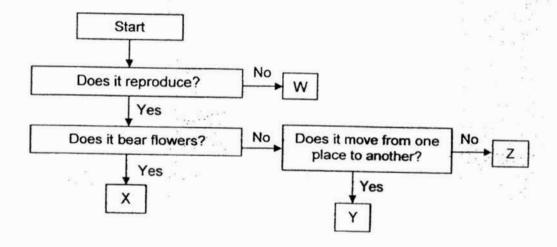
Study the mind map below carefully.



Which of the following are similarities between M and N?

- (1) They can reproduce.
- (2) They need only food to survive.
- (3) They have fruits, leaves and stem
- (4) They can move freely from place to place on their own.
- Study the flowchart below.



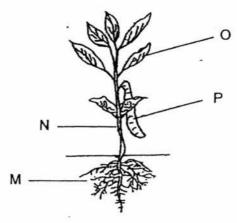
Which of the following letters, W, X, Y or Z, represents an animal?

- (1) W
- (2) X
- (3) Y
- (4) Z

7. Which of the following observations <u>does not</u> match the characteristics of all living things?

ſ	Observations	Characteristics of all living things
(1)	(3) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	They respond to changes.
(2)	A boy perspiring under the hot sun.	
	A sunflower growing towards sunlight.	They can make their own food.
(3)		They grow.
(4)	A tadpole becoming a frog in 13 weeks. An increase in the number of	They reproduce.
	caterpillars in the garden.	

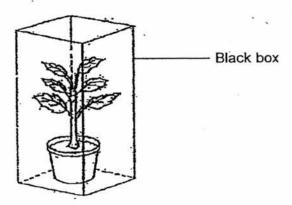
The diagram below shows a string bean plant.



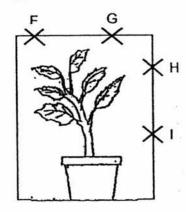
Which of the following part of the plant is <u>not</u> found on non-flowering plants?

- (1) M
- (2) N
- (3) O
- (4) P
- 9. Which of the following statement(s) is/are true of all flowering plants?
 - A They produce fruits.
 - B They can only be found on land,
 - C Their flowers are similar in size, shape and colour
 - D They produce flowers when the conditions are right.
 - (1) B only
 - (2) B and D only
 - (3) A and D only
 - (4) All of the above

 Vincent placed a plant inside a black box as shown below. He then made a hole in the box and placed it in the garden. He watered the plant daily.



A few days later, he observed that as the plant grew, the stem grew in the direction as shown in the diagram below.



At which of the above positions, F, G, H or I, is the hole made in the box?

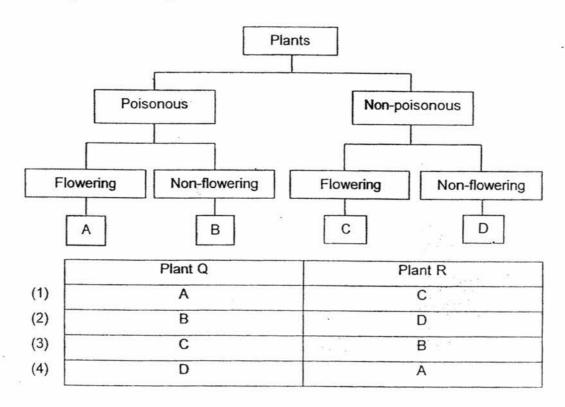
- (1) F
- (2) G
- (3) H
- (4)

Study the table and classification chart below and answer questions 11 and 12.

11. The following table gives information on four plants, P, Q, R and S, based on two characteristics. A tick (✓) shows that the plant has the characteristic.

Characteristics	Р	Q.	R	s
Poisonous		1		1
Has fruits	1			1

From the information above, in which group, A, B, C or D, do plants Q and R belong in the following classification chart?



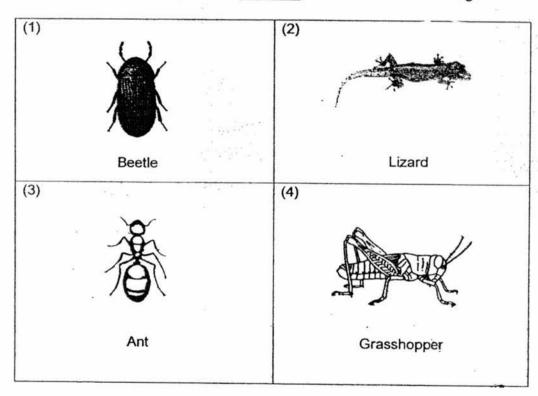
- 12. Which of the following statements about plants P, Q, R and S is incorrect?
 - (1) Plant P and S reproduce by seeds.
 - (2) Fern is an example of plant Q or R.
 - (3) Apple tree is an example of plant P.
 - (4) Plant S does not make its own food.

13. Kenneth planted two identical plants into two identical cups, K and L, and placed them at different places, one at the garden and one in a dark cupboard. He watered both cups with equal amount of water. The table below shows the growth of both plants over two weeks.

	Height of p	lants in centir	netres (cm)
	Week 0	Week 1	Week 2
Cup K	7	9	12
Cup L	7	7	7

What was the aim of his experiment?

- (1) To find out if plants need water to grow.
- (2) To find out if light affects the growth of plants.
- (3) To find out if the type of cup affects the plants' survival.
- (4) To find out if the height of plants will affect the plants' survival.
- 14. Which one of the following animals does not have a hard outer covering?



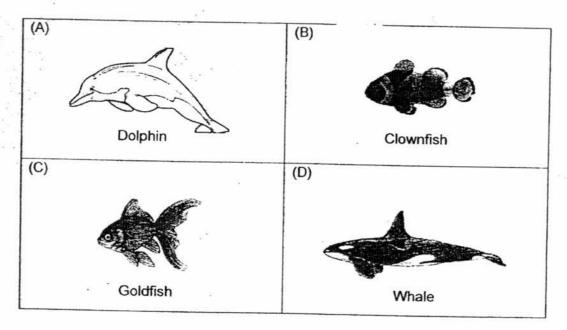
15. Which animal group is incorrectly matched to its outer covering?

Group	Outer Covering
Bird	Feathers
Reptile	Dry skin with scales
 Mammal	Hair
Amphibian	Scales

16. Which of the following statements is true about mammals?

- (1) They have feathers.
- (2) They suckle their young.
- (3) They reproduce by laying eggs.
- (4) They do not have constant body temperature.

17. Study the pictures of the animals below.



Which of the following classifies the animals into the correct two animal groups?

Group 1	Group 2
Α	B, C, D
A, C	B, D
B, C	A, D
A, B, C	D

18. The diagram below shows a frog and a snake.







Snake

How are the two animals similar?

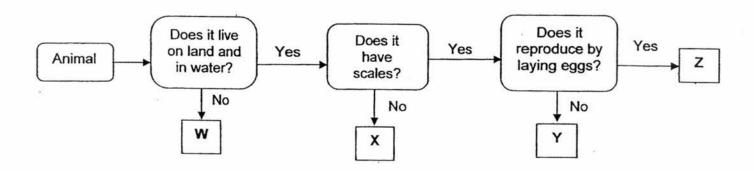
- A They have the same outer covering
- B Most of them reproduce by laying eggs.
- C They do not have constant body temperature.
- (1) A and B only
- (2) A and C only
- (3) B and C only
- (4) A, B, and C
- 19. Jack wanted to find out if the animal below is a bird.



Which of the following actions would allow him to be certain if he is correct?

- (1) Observing if it can fly
- (2) Checking if it has feathers
- (3) Counting the number of legs it has
- (4) Finding out if it reproduces by laying eggs.

20. Study the flowchart below and answer questions 20 and 21.



Which group (W, X, Y or Z) does a Cat and Turtle belong to in the above flowchart?

Cat	Turtle		
· W	X .		
W	Z		
Υ	Z		
Υ	X		

21. Which letter, W, X, Y or Z, best represents the animal shown below?



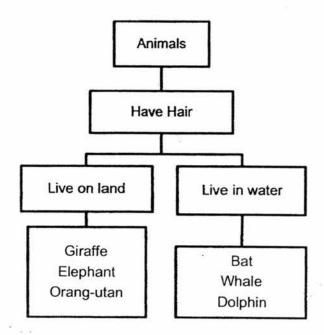
Salamander

- (1) W
- (2) X
- (3) Y
- (4) Z

- 22. June discovered an unknown animal. She made the following observations:
 - It reproduces by laying eggs.
 - It can live on land and in water.
 - It breathes through its lungs when it is on land.

Which of the following animal groups does it belong to?

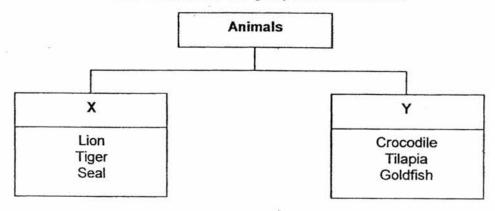
- (1) Amphibians
- (2) Fish
- (3) Insects
- (4) Reptiles
- 23. Study the classification chart below.



Which animal in the above classification chart is classified incorrectly?

- (1) Bat
- (2) Dolphin
- (3) Orang-utan
- (4) Whale

24. Peter classified some animals into two groups as shown below.



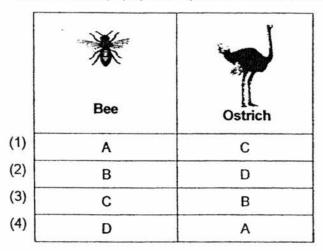
Which of the following shows the correct headings for X and Y?

	X	Y	
	Mammals	Fish	
	Live on land only	Live in water only	
Animals with hair		Animals with scales	
	Animals that lay eggs	Animals that give birth to young	

25. The table below shows the characteristics of four animals, A, B, C and D. A tick (✓) indicates the presence of the characteristic.

Animal	Number of legs			11 Wi		
Allillai	2	4	6	Has Wings	Lay eggs	
Α	1			1	1	
В		1			1	
С			1		1	
D			1	1	1	

Which animals, A, B, C or D, could be the bee and ostrich?



End of Booklet A

SEMESTRAL ASSESSMENT 1 (2017)

PRIMARY 3

SCIENCE

BOOKLET B

Wednesday			17 May 2017			1 hr 30 min	
							22 22
Name:	e e		()	Class: 3.()	Parent's Signature:

INSTRUCTIONS TO PUPILS

- 1 Do not turn over the pages until you are told to do so.
- 2 Follow all instructions carefully.
- 3 There are 13 questions in this booklet.
- 4 Answer ALL questions.
- The marks are given in the brackets [] at the end of each question or part question.

Booklet	Possible Marks	Marks Obtained
Α	50	
В	40	
PBA	10	2
Total	100	

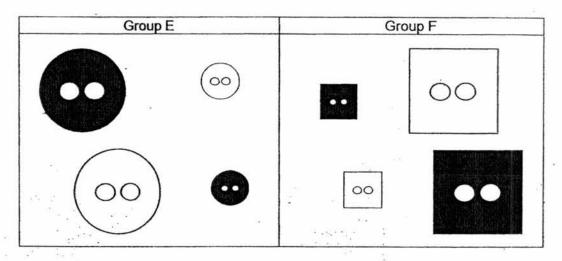
This question paper consists of 14 printed pages (inclusive of cover page).

Booklet B (40 marks)

For questions 26 to 38, write your answers in this booklet.

The number of marks available is shown in brackets [] at the end of each question or part question.

26. The buttons below are classified into two groups, E and F.



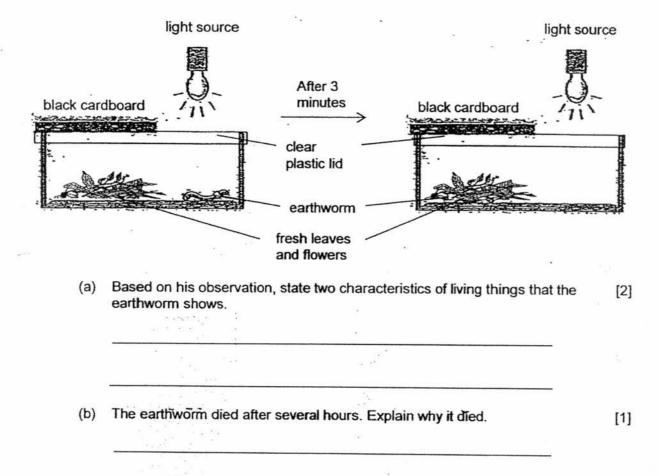
(a)	What characteristic is used	to group the buttons?		[1]
	8 365 90 - 90 - 100 - 1			
(b)	State two other characterist	ics you can use to classify the butt	ons equally into	[2]
107	two groups.			1-1
	Characteristic 1 :			

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SCORE

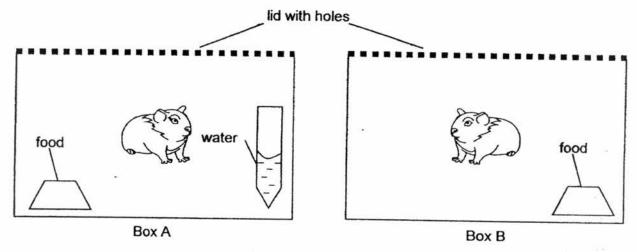
3

Characteristic 2:

27. Adrian carried out an experiment as shown below. He placed an earthworm in a box and used a clear plastic lid to seal the box. He left the light source on for 3 minutes and found the earthworm hiding in between the fresh leaves and flowers.



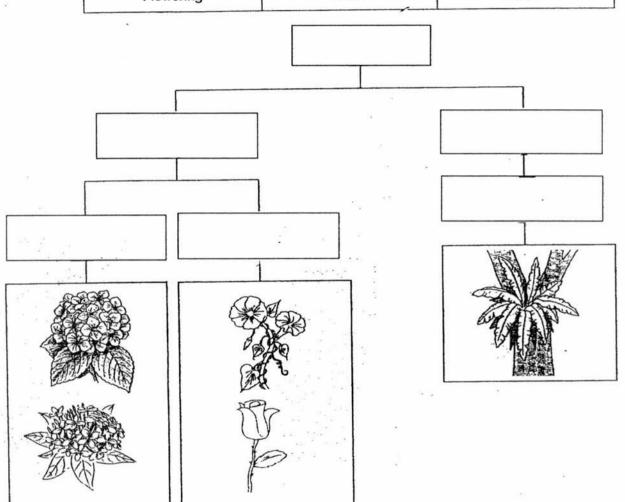
28. Tim placed 2 hamsters with the same amount of food into two identical transparent plastic boxes. He placed water in Box A and then placed both boxes in the living room.



	0.4
	10 10 10 10 10 10 10 10 10 10 10 10 10 1
What is the aim of his experiment?	
ene sis ja vi a li a li a li	
	a s ^{ee} a
State two changes that he needs to make to Box	

 Using the words provided in the table below, fill in the boxes in the classification chart with suitable sub-headings.

Clusters Non-flowering Singly
Flowering Fern Plants

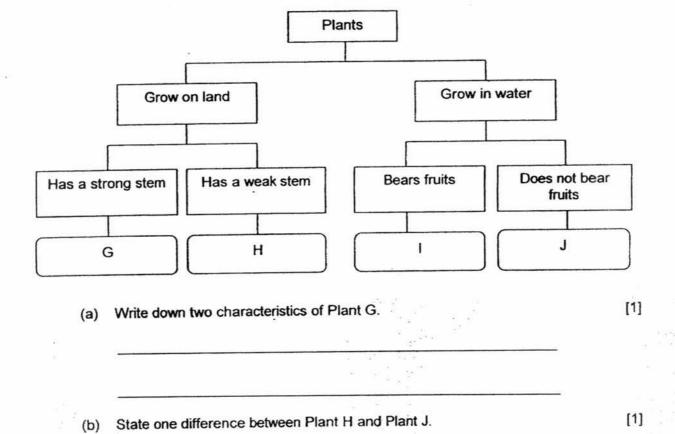


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3

[3]

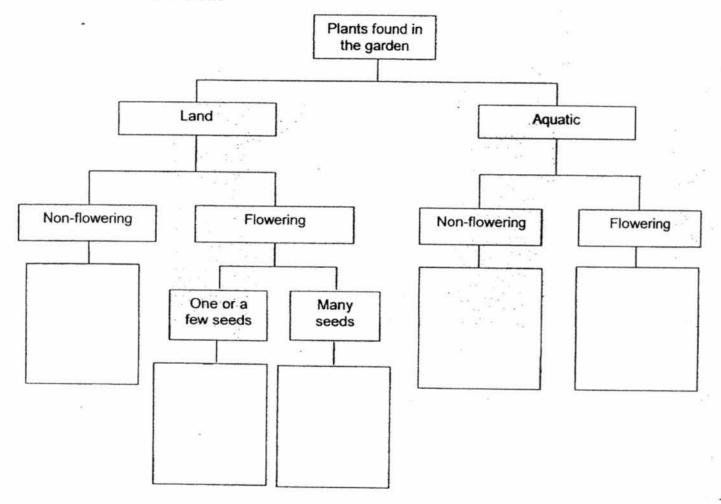
30. Study the classification chart below carefully.



 David found some plants. He observed them carefully and made the following notes about them.

Plant	Type of plant	Number of seeds	Location
Α	Non-Flowering	ng -	
В	Flowering	many	Water Land
С	Non-Flowering		Land
D	Flowering	one	Land
E	Flowering	a few	Water
F	Flowering	a few	Land

Based on the observations given in the table above, classify all the plants by writing the letters (A to F) in the boxes provided below. You may write more than one letter in a box.



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SCORE

3

[3]

ACS (Junior) P3 SA1 2017

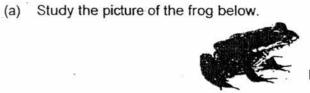
32. lan grew four Sunflower plants, W, X, Y and Z. He placed them under different conditions. A tick (✓) shows that the condition is present.

		Condition	
Plant	Air	Water	Sunlight
W	1		
X		1	1
Y	1		
Z	~	1	1

	n Sunflower plant, W, X, Y or Z, will grow the best after three weeks? in your answer.
	n two plants should he compare if he wants to find out if plants need to grow?
	e place where plant Z was growing, lan found some young sunflower s growing. State the characteristic of living things this shows.
nal M I	nas the following charactèristics:
	It lays eggs. It has a shell.

It has dry skin covered with scales.

It can live on land and in water.



Fro

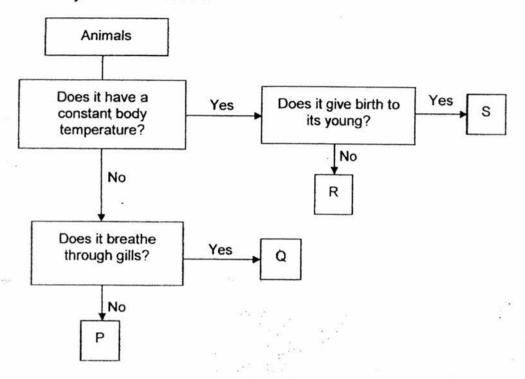
page)

SCORE

Muthu said that Animal M is a frog as it can live on land and in water. Is he correct? Give two reasons for your answer.	
Based on the information above, which animal group would Animal M most likely belong to?	
(Go on to	the r

33.

34. Study the flowchart below.



(a) Based on the flow chart, describe one similarity and one difference between Animal R and Animal S.

	0025
(ii) Difference:	[1]

(b) Using the information from the flowchart in part (a), write the letters, P, Q, R and S to match the animals in the boxes below.

[2]

Animals	Letter
Horse	
Toad	
	2.1
Shark	4.3.7
B .	

Pigeon	

	T
SCORE	
	/ 2
	1

35. Study the pictures of Animal T and Animal U below.





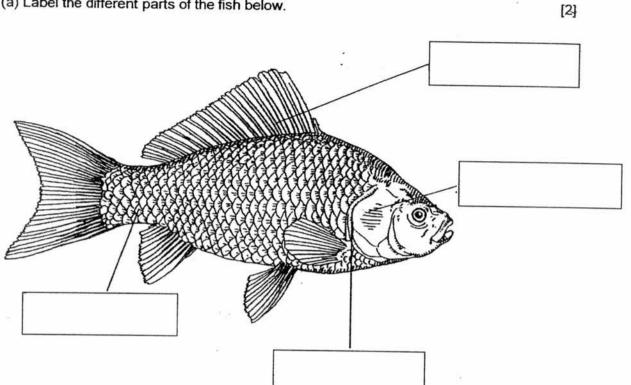
Animal T

Animal U

State 3 characteristics of Animal T.	9.
state o strat determented of 7 cmind.	
2	
	_ H 4:
	2 - 2
	n Animal T and Animal U based on about their shape, size and colour.]

SCORE	
	3





State the part of the fish which enable it to swim and breathe.

[1]

- Swim : _____ (i)
- (ii) Breathe : _____
- Andrew found a mudskipper near his house. (c)



Mudskipper

Based on your observation, is the mudskipper a fish? Explain your answer.	[1]

(To all to allo Hom page)		
SCORE	1.	
	4	

The table below gives information on four animals W, X, Y and Z. A tick (<) indicates that the animal has that characteristic.

Characteristics	Animals			
	w	x	Υ	z
Has six legs			1	
Has scales	1			
Has feathers				/
Has hair		~		

Using the information above, write the letters W, X, Y and Z in the correct (a) [2] boxes in the flow chart below. Does it produce milk No Does it have No No Does it have 3 for its a beak? Start body parts? young? Yes Yes Yes

(b)	Which animal group	[1]			
	Animal Y:	e			
	A 1 7:				

(DO ON to the next page						
SCORE	3					

38. Study the pictures below.







Rat

Compare the two animals based on the characteristics stated.

[3]

Animal .	Mosquito	Rat
Outer Covering		
Number of legs	W	
How they reproduce		

End of Paper

SCORE	
	3

EXAM PAPER 2017

LEVEL

PRIMARY 3

SCHOOL

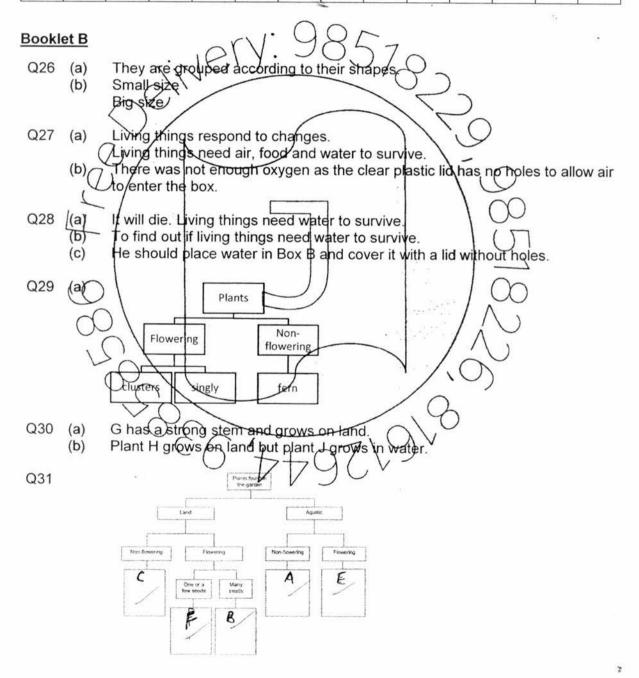
ACS (Junior) SCIENCE

SUBJECT TERM

SA1

Booklet A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14
4	2	2	4	1	3	2	4	3	1	2	4	2	2
Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25			
4	2	3	3	4	1	2	1	1	3	4			



- Q32 (a) Plant Z. It has air, water and sunlight.
 - (b) Plant W and Z.

Living things reproduce. (c) No. A frog does not have a shell and it does not have a dry skin covered with Q33 (a) scales. Reptile (b) (i) They both have a constant body temperature. Q34 (a) (ii) Animal S gives birth to its young but Animal R does not give birth to its young. (b) S, P, Q, R Q35 (a) Rooster (i) It lay eggs (b) (ii) It has feathers. (iii) It has a beak (c) They both have Q36 (a) (b) (i) Fin (ii) Gills Yes, it lives in water and it breathe through gills. Q37 (a) (b)

Mosquito

Hard outer covering

Rat

Hair

4

Give birth to young alive

Q38

> Animal

Outer covering

Number of legs

How they

reproduce