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Please stick the barcode label in the box

Education Bureau
Territory-wide System Assessment 2017
Primary 6
Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 36 questions in this test. Answer all questions.
3. Time allowed is 50 minutes.
4. Write your answers in this Question-Answer Booklet.
5. Do not write in the margins.
6. Use of calculators is not allowed.
7. Do your rough work on the rough work sheet provided.
8. Write your School Code, Class and Class Number in the boxes below.

Instructions for answering questions:

- (a) Multiple choice questions – Blacken the circle next to the correct answer with an **HB pencil**.

For example:

- ☒ A
☐ B
☐ C
☐ D

- (b) Questions in which you are asked to “Show your working” – Write your mathematical expressions, answers and statements/conclusions in the spaces provided. There is **NO** need to show your rough work.

- (c) Other types of questions – Answer as required in the spaces provided.

School Code
學校編號

P			
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Class
班別

6	
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Class No.
班號

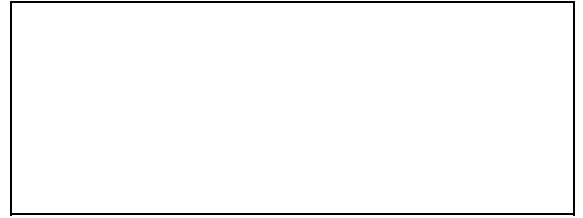
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此格只許填寫一個大楷英文字母
Write one **capital letter** in this box

1. In the number 12 495, the digit '4' is in
the _____ place.
2. Which of the following numbers is a factor of 54?
 - ☐ A. 18
 - ☐ B. 108
 - ☐ C. 162
 - ☐ D. 540
3. Which of the following numbers is a common factor
of 8 and 32?
 - ☐ A. 4
 - ☐ B. 16
 - ☐ C. 32
 - ☐ D. 64
4. The Least Common Multiple (L.C.M.) of 18 and 27
is _____ .

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Please do not write in the margin.

5. Which of the following fractions is the smallest?

(Circle the answer)

$$\frac{3}{16} \quad , \quad \frac{9}{32} \quad , \quad \frac{3}{32}$$

6. Fill in the boxes with the correct numbers.

(a)

$$\frac{15}{22} = \frac{75}{\boxed{}}$$

(b)

$$\frac{20}{48} = \frac{\boxed{}}{12}$$

7. Change $\frac{3}{7}$ into a decimal correct to two decimal places.

Answer: _____

Please do not write in the margin.

8. $\frac{5}{5}$ is * smaller than / equal to / larger than $\frac{11}{12}$.

(*Circle the answer)

9. In the number 19.85, which digit stands for the smallest value?

☐ A. '1'

☐ B. '5'

☐ C. '8'

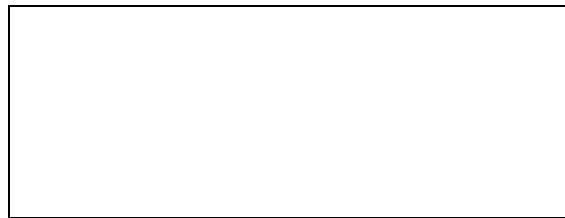
☐ D. '9'

10. $1.7 \times (2.08 + 3.92) =$ _____

11. $\frac{1}{9} + 2\frac{2}{9} - 1\frac{4}{9} =$

12. $\frac{5}{6} \div 6 \times \frac{2}{5} =$

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13. $48 + 636 \div 12 =$

- ☐ A. 56 ... 2
- ☐ B. 57
- ☐ C. 91
- ☐ D. 101

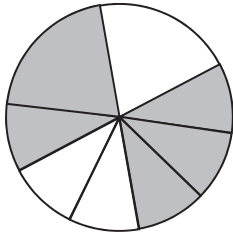
14. Miss Cheung bought a tracksuit at a special price. The original price was 899 dollars. She paid with a 500-dollar note and got 191 dollars change.

Which of the following expressions is most suitable for estimating the amount (in dollars) Miss Cheung saved?

- ☐ A. $800 - (500 - 100)$
- ☐ B. $800 - (500 - 200)$
- ☐ C. $900 - (500 - 100)$
- ☐ D. $900 - (500 - 200)$

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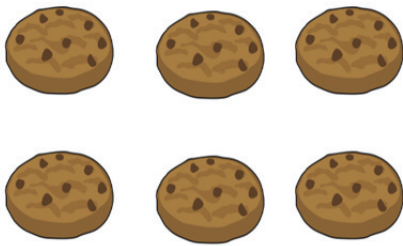
15. What percentage of the whole figure below is shaded?



Answer: _____ % of the whole figure is shaded.

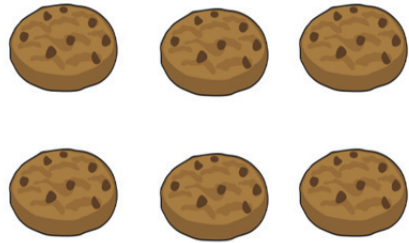
16.

Tasty Bakery



Cookies
\$46.50 for 6 pieces

Yummy Bakery

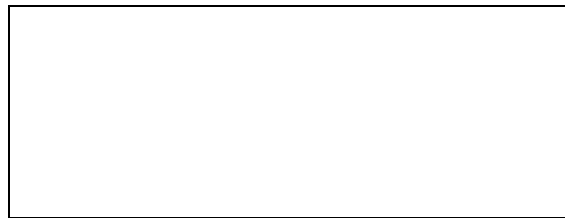


Cookies
\$7.50 each

Wendy buys 6 pieces of cookies. If she buys them

at Yummy Bakery, she can save \$ _____ .

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17. (a) Change $1\frac{3}{20}$ into a percentage.

Answer: _____ %

- (b) Change 0.5% into a fraction and reduce it to the simplest form.

Answer:

18. There are 18 crayons in a box. $\frac{2}{3}$ of the crayons are yellow. $\frac{1}{6}$ of the crayons are blue. What is the total number of yellow and blue crayons?

(Show your working)

Please do not write in the margin.

Please do not write in the margin.

19. The calendar of February is shown below.

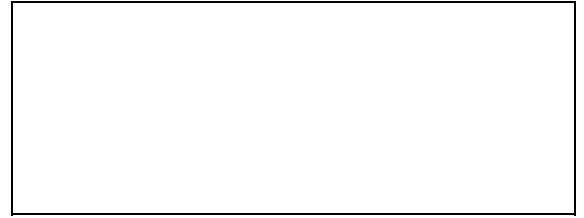
February						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

- (a) The first day of February is _____ .
(day of a week)

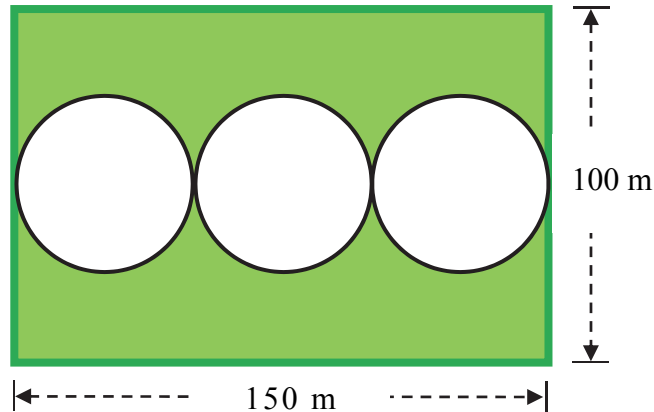
- (b) The fourth Sunday of February is the
_____ of _____ .
(day) (month)

- (c) ‘Study Tour’ lasts for five days.
It starts on the 27th of February and ends on the
_____ of _____ .
(day) (month)

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20.



A rectangular lawn is 150 m long and 100 m wide. There are three circular pools in the lawn. The diameter of each pool is 50 m (as shown in the diagram above).

(a) The perimeter of the rectangular lawn is _____ m.

(b) The circumference of each pool is _____ m.
(Take π as 3.14)

21. Fill in the following blanks with suitable units.

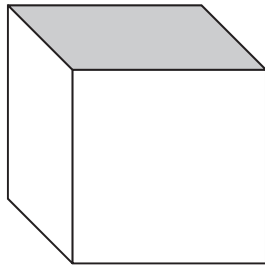
(a) The length of a highway is about
10 _____ .

(b) The weight of a pair of glasses is about
20 _____ .

Please do not write in the margin.

Please do not write in the margin.

22.

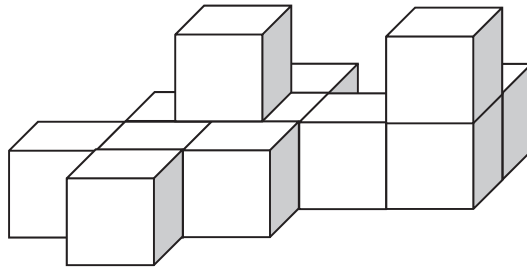


4 cm

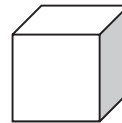
The volume of the cube above is

- ☐ A. 16 cm^2 .
☐ B. 16 cm^3 .
☐ C. 64 cm^2 .
☐ D. 64 cm^3 .

23.

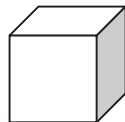


The solid shown above is made up of



.

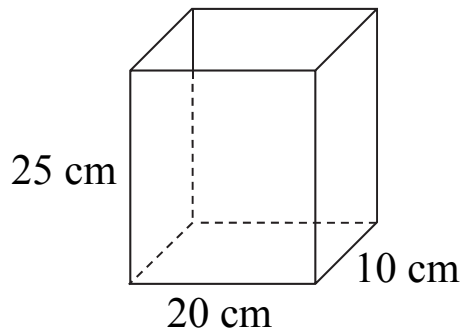
The volume of each

is 1 cm^3 .

The volume of the solid is _____ .

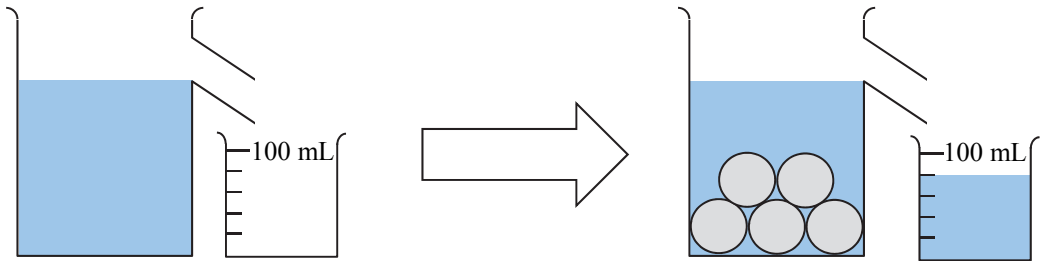
(Give the answer with a unit)

24.



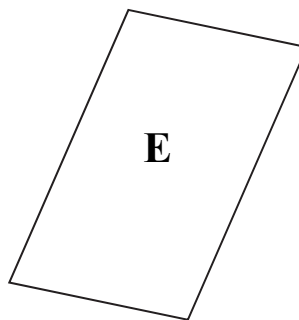
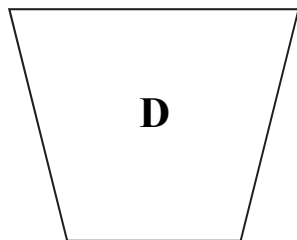
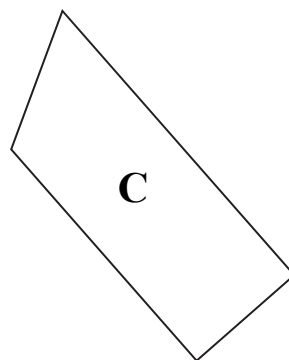
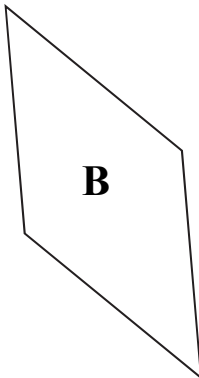
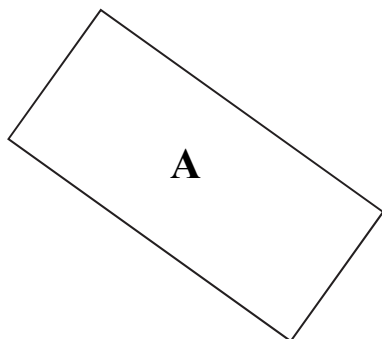
The capacity of the rectangular container above
is _____ L.

25.



According to the information of the diagram above,
the volume of each  is _____ cm^3 .

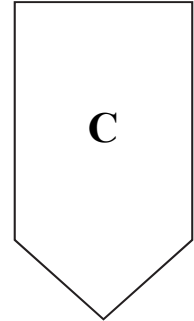
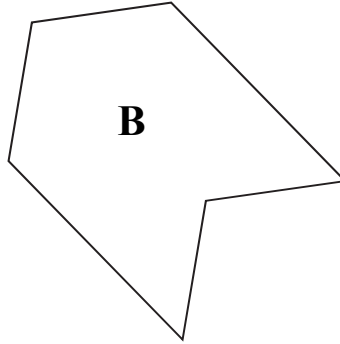
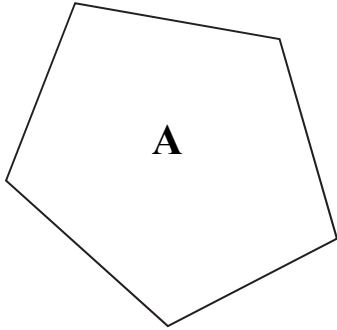
26. Study the 2-D shapes below. Write the letter(s) for the answer.



(a) Rhombus: _____

(b) Trapezium: _____

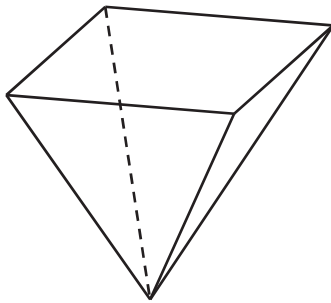
27. Study the 2-D shapes below. Write the letter(s) for the answer.



Pentagon : _____

Hexagon : _____

28.

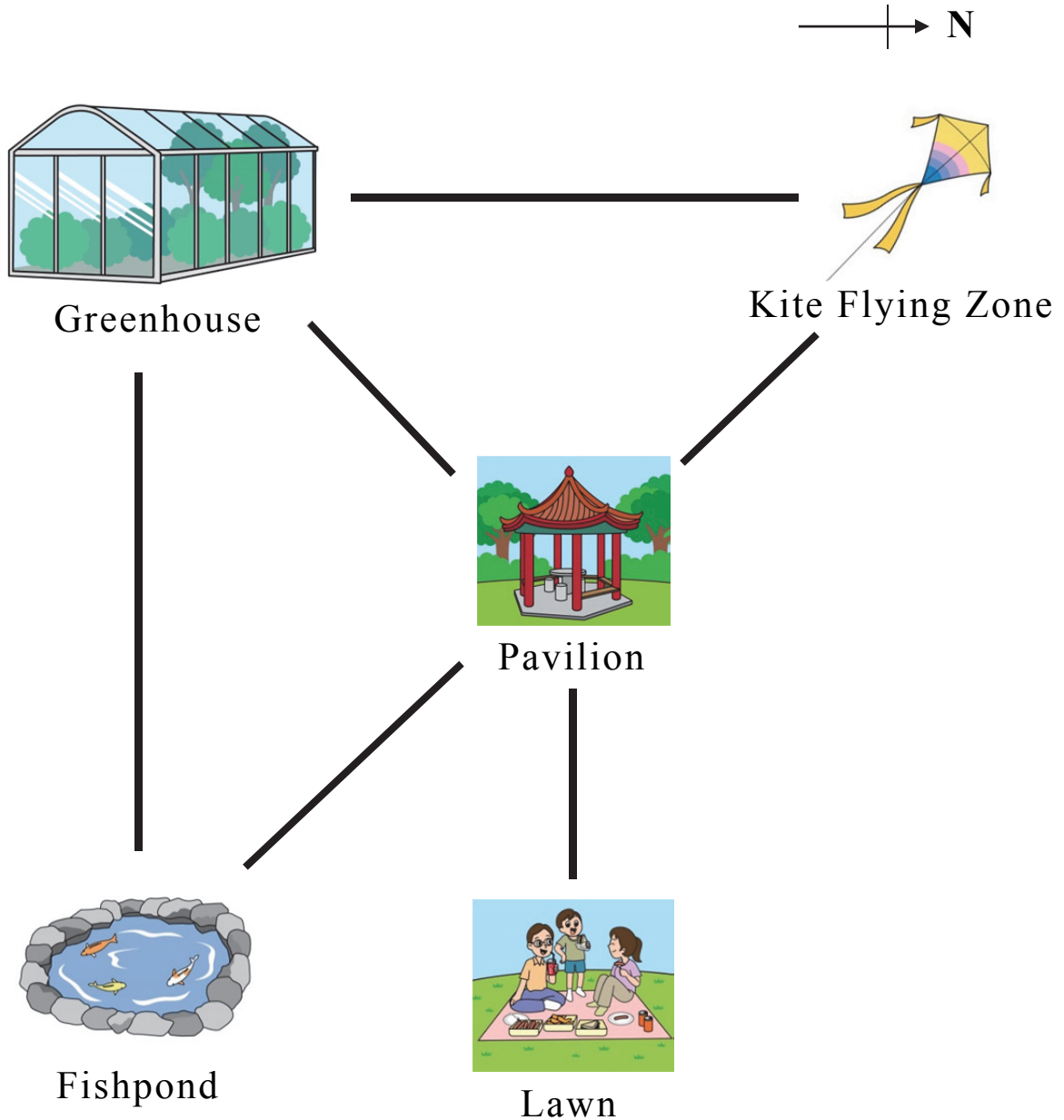


The figure above is a * pyramid / prism .

(*Circle the answer)

It has _____ edges.

29. The map for a park is shown below.



- (a) Kite Flying Zone is to the north of _____ .
- (b) Starting from Lawn, Eva goes _____ to
(direction)
reach Pavilion. Then she turns _____ to
(direction)
reach Fishpond.

Please do not write in the margin.

Please do not write in the margin.

30. A pen costs 10 dollars. A pencil costs y dollars. How many dollars should be paid for a pen and 5 pencils?

- ☐ A. $(10 + y) \times 5$
- ☐ B. $(5 + y) \times 10$
- ☐ C. $10 + 5y$
- ☐ D. $10y + 5$

31. Which of the following are equations? Write all the letters for the answer.

- A. $0 = 0 \div 5$
- B. $5n = 5$
- C. $9 \times (A + 6)$
- D. $16 = 15 + M$
- E. $(4 + 7) \times 2 = 22$

Answer: _____

32. $1 + \frac{y}{2} = 4\frac{1}{2}$

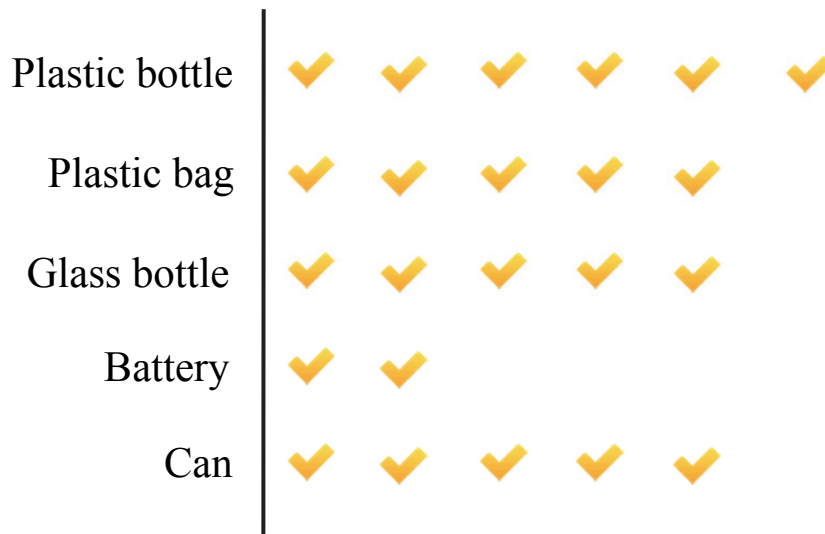
$y =$

33. A number plus 10 is divided by 6. The result is 40.
Find the number by *the method of solving an equation*.
(Show your working)

34. Class 6A held 'Recycling Activity' last month. They counted the recycled items collected and drew the following pictogram.

**Number of Recycled Items Collected
by Class 6A Last Month**

Each  stands for 10 pieces



- (a) The number of batteries collected by Class 6A was _____ last month.

- (b) Which recycled item collected was the most?

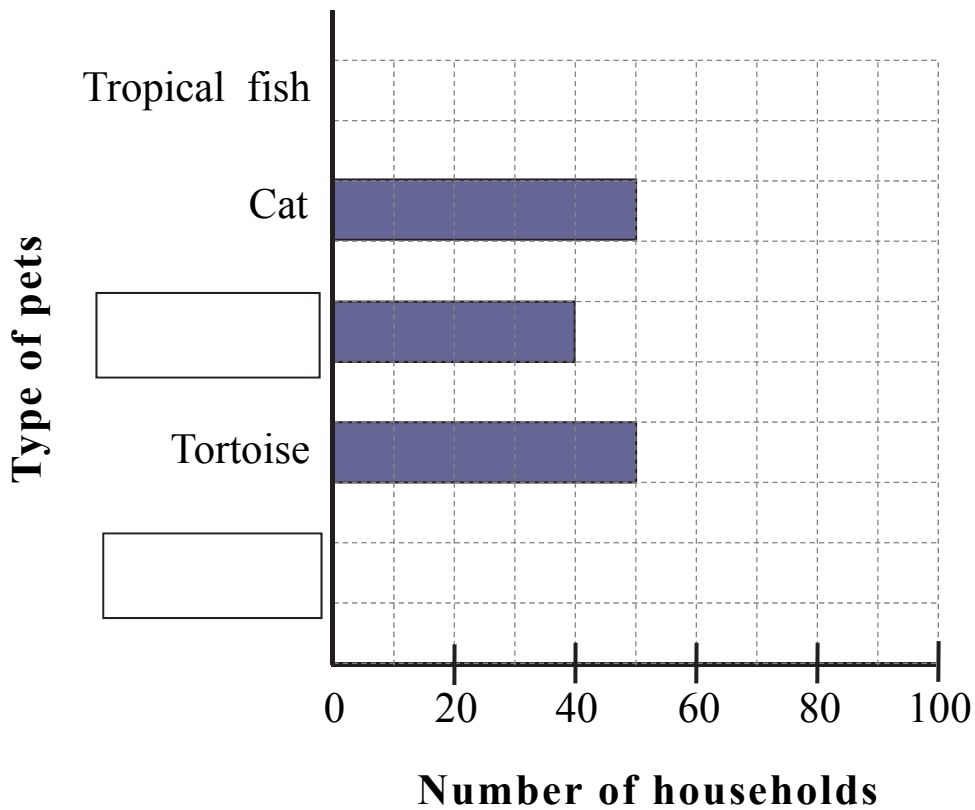
Answer: _____ was the most.

35. The table below shows the results of a survey on pets kept by the residents of Peace Estate.

Type of pets	Tropical fish	Cat	Dog	Tortoise	Rabbit
Number of households	80	50	40	50	10

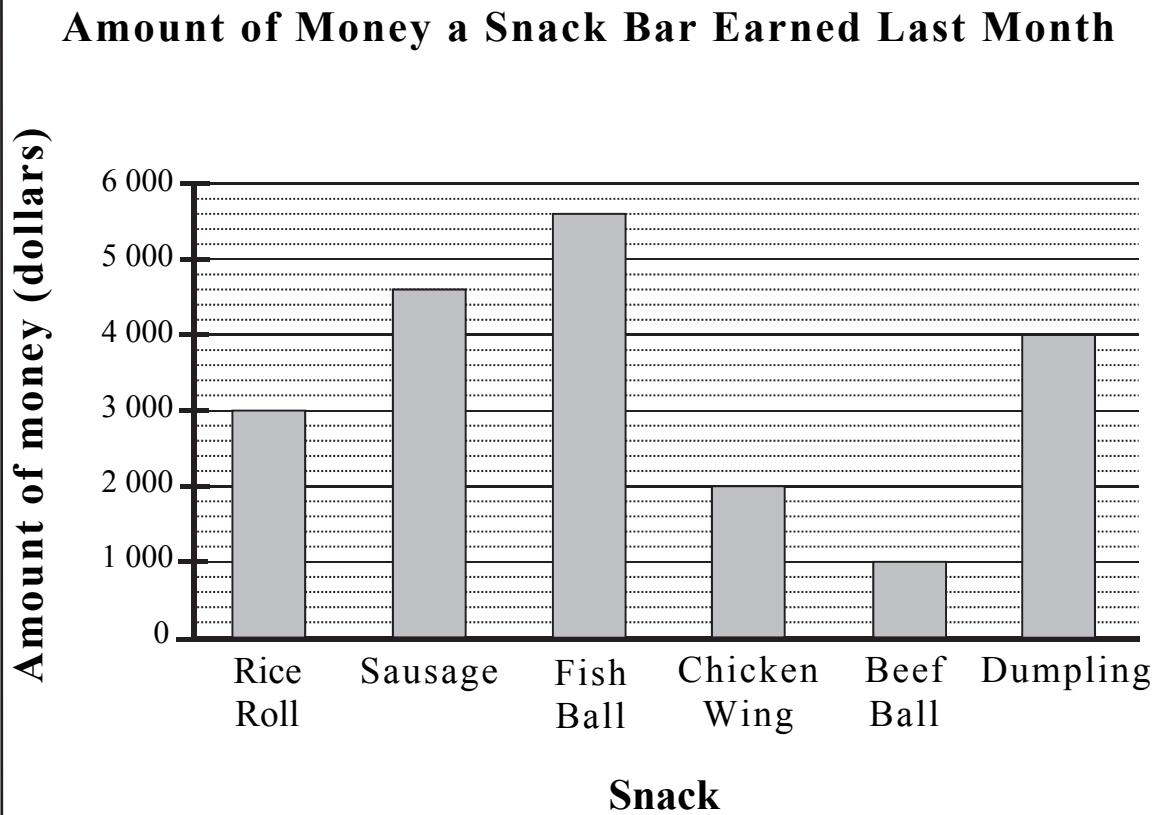
According to the information above, use a pencil to complete the following bar chart. Add the title and types of pets.

(Title)



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36. The following bar chart shows the amount of money a snack bar earned last month.



- (a) The amount of money earned by selling _____ was the most.
The amount was _____ dollars.
- (b) The amount of money earned by selling beef balls was _____ % of that of chicken wings.

— END OF PAPER —

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