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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. Which of the following numbers has the digit '5' in its thousands place?

☐ A. 53 420
☐ B. 42 350
☐ C. 25 043
☐ D. 30 542

2. Which of the following numbers is a multiple of 36?

☐ A. 3
☐ B. 12
☐ C. 36
☐ D. 98

3. List all the factors of 85.

Answer: _____

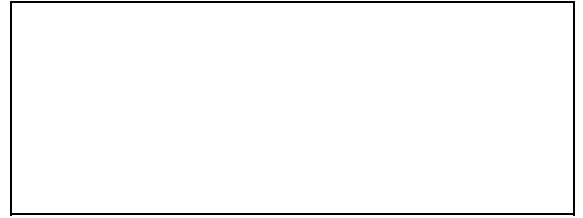
4. The Highest Common Factor (H.C.F.) of 28 and 98
is _____ .

5. Which of the following fractions has its value nearest to 1?

(Circle the answer)

$1\frac{5}{7}$, $1\frac{5}{8}$, $1\frac{5}{6}$

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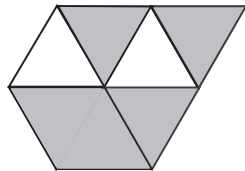
Please do not write in the margin.

6. The first common multiple of 6 and 9 is 18.

Which of the following numbers is their fourth common multiple?

- ☐ A. 3
- ☐ B. 36
- ☐ C. 54
- ☐ D. 72

7. What fraction of the whole figure below is shaded?



Answer: of the whole figure is shaded.

Please do not write in the margin.

8. (a) Change $2\frac{1}{7}$ into an improper fraction.

Answer:

- (b) Change $\frac{59}{6}$ into a mixed number.

Answer:

9. Which of the following fractions is the smallest?

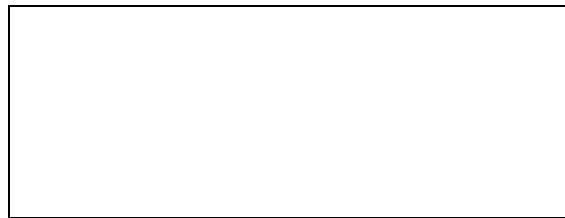
(Circle the answer)

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

10. Change 0.32 into a fraction and reduce it to the simplest form.

Answer:

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Please do not write in the margin.

11. $48 + 636 \div 12 =$

☐ A. $56 \dots 2$

☐ B. 57

☐ C. 91

☐ D. 101

12. $25 \div 3 \times 12 =$ _____

13. $9 - 4\frac{2}{3} + 3\frac{2}{5} =$

14. $\frac{1}{8} \times 2\frac{1}{2} \times 1\frac{3}{5} =$

15. $3.06 - 1.85 + 0.8 =$ _____

16. $2.04 \div 1.5 =$ _____

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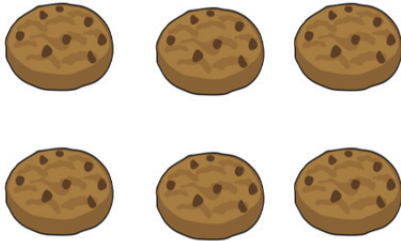
17. The truck driver drives for $1\frac{1}{2}$ hours. Then he rests for $\frac{1}{3}$ hour and drives for $\frac{3}{4}$ hour again.

He drives and rests for

hour(s) altogether.

18.

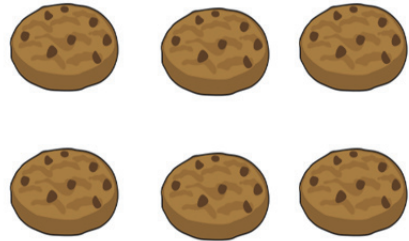
Tasty Bakery



Cookies

\$46.50 for 6 pieces

Yummy Bakery

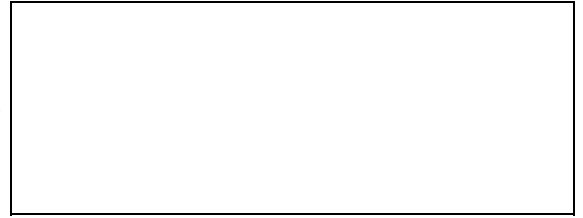


Cookies

\$7.50 each

Wendy buys 6 pieces of cookies. If she buys them
at Yummy Bakery, she can save \$ _____ .

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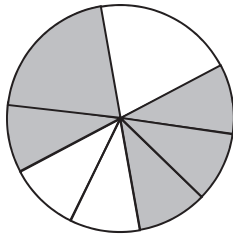


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19. A pair of socks costs \$9.70. Stella has \$90.50. Which of the following expressions is most suitable for estimating the number of pairs of socks she can buy at most?

- ☐ A. $90 \div 10$
- ☐ B. $90 \div 9$
- ☐ C. $100 \div 10$
- ☐ D. $100 \div 9$

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



Answer: _____ % of the whole figure is shaded.

Please do not write in the margin.

21. Father bought a pizza. Cindy ate 25% of the whole pizza. Paul ate 60% of the remaining part. What percentage of the whole pizza did Paul eat?

(Show your working)



22. Fill in the following blanks with suitable units.

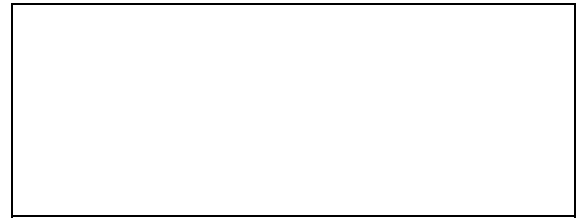
(a) The length of a highway is about

10 _____ .

(b) The weight of a pair of glasses is about

20 _____ .

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23. 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)

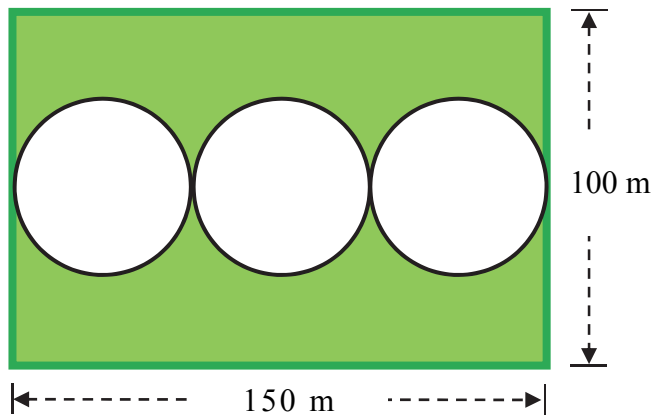
(b) The fourth Sunday of February is the
_____ of _____.
(day) (month)

(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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Please do not write in the margin.

24.



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.

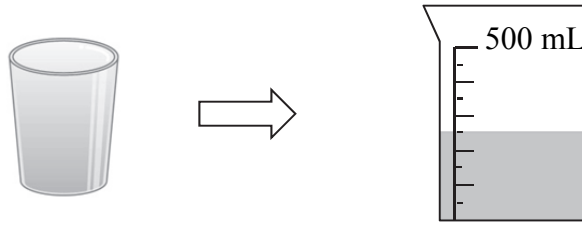
(b) The circumference of each pool is _____ m.

(Take π as 3.14)

Please do not write in the margin.

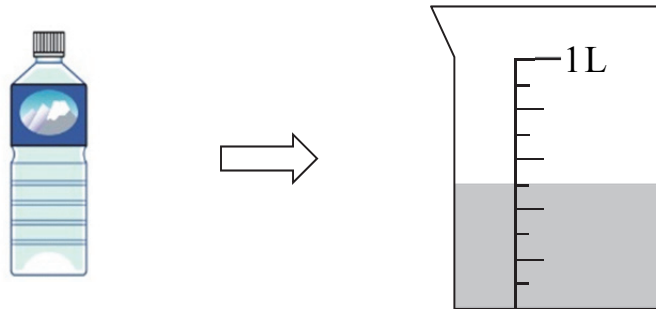
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25. (a) Fill up a glass with water. Then pour all the water in the glass into the beaker.



The capacity of the glass is _____ mL.

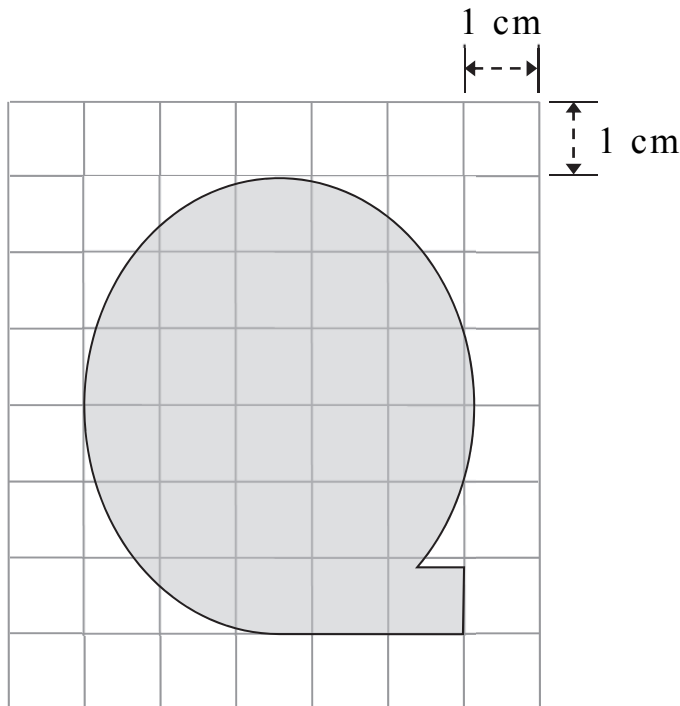
- (b) Fill up a bottle with water. Then pour all the water in the bottle into the beaker.



The capacity of the bottle is _____ L.

- (c) The capacity of the glass is
* larger than / equal to / smaller than
the capacity of the bottle.
(*Circle the answer)

26. In the following diagram, the side of each square is 1 cm.



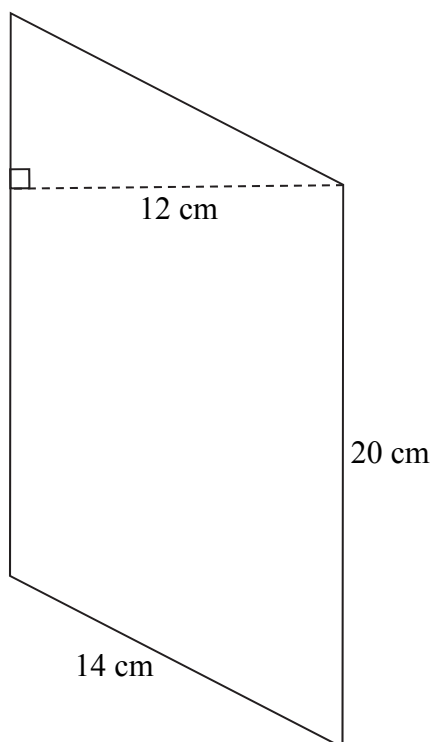
The area of the shaded part is about _____ cm^2 .

(Give the answer as a whole number)

27. In the Olympic Games, an athlete finished the 100-metre race at an average speed of

- ☐ A. 10 m.
- ☐ B. 10 m/s.
- ☐ C. 10 s.
- ☐ D. 10 s/m.

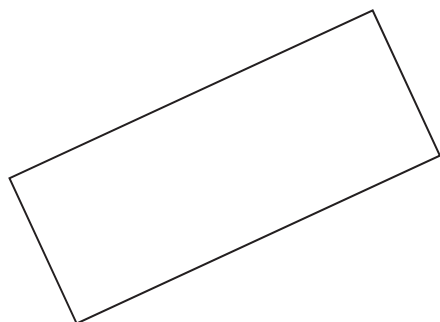
28.



The figure above is a parallelogram.

Its area is _____ cm^2 .

29.



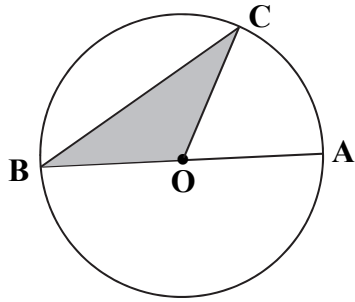
The 2-D shape above is a

* trapezium / rhombus / rectangle .

(*Circle the answer)

It has _____ right angle(s).

30. In the figure below, **O** is the centre of the circle.

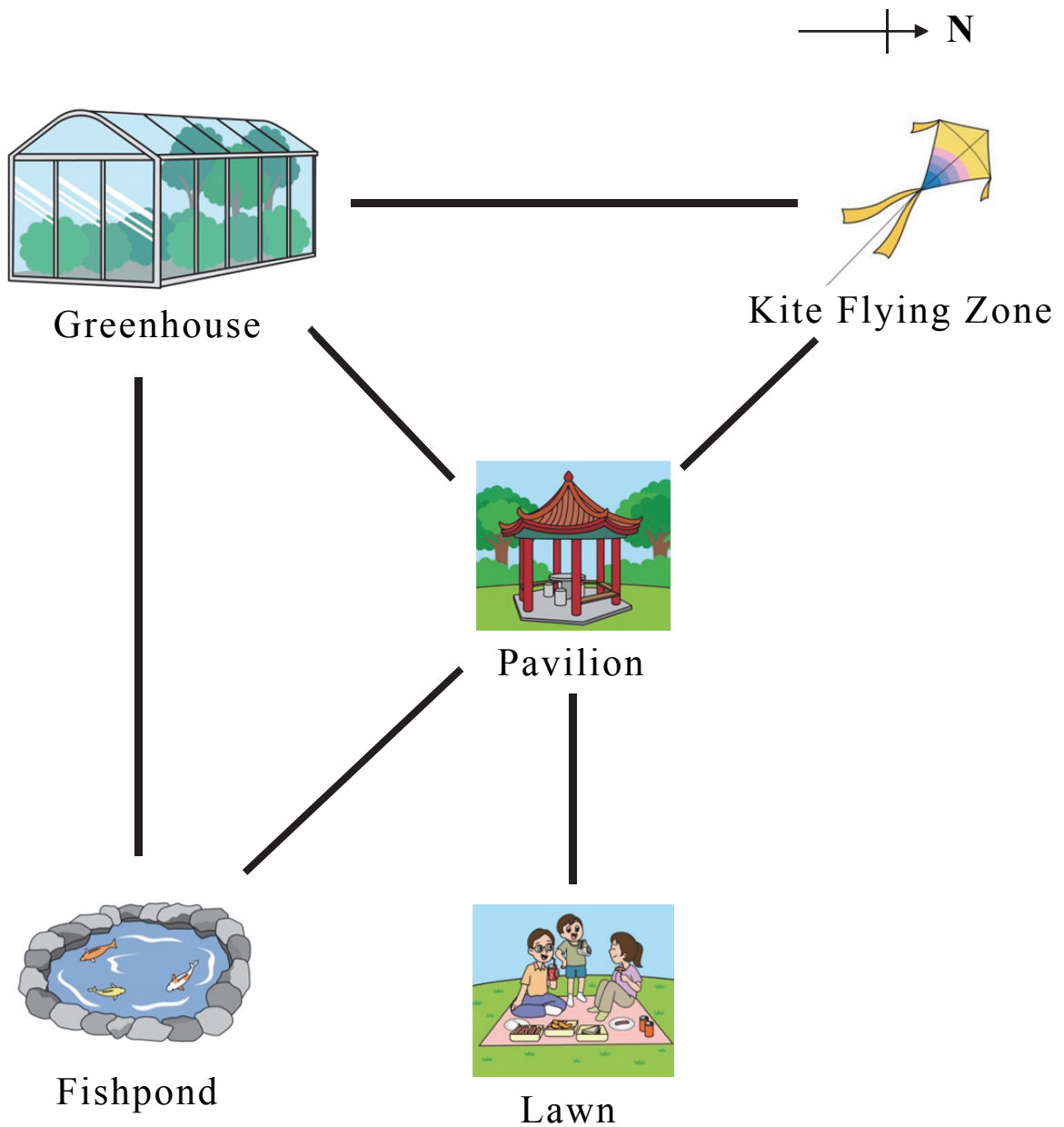


- (a) The length of straight line **AB** is equal to the
- * radius / diameter / circumference of the circle.
- (*Circle the answer)

- (b) The shaded part is
- * an equilateral / a right-angled / an isosceles triangle.
- (*Circle the answer)

Please do not write in the margin.

31. The map for a park is shown below.



Please do not write in the margin.

- (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.

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

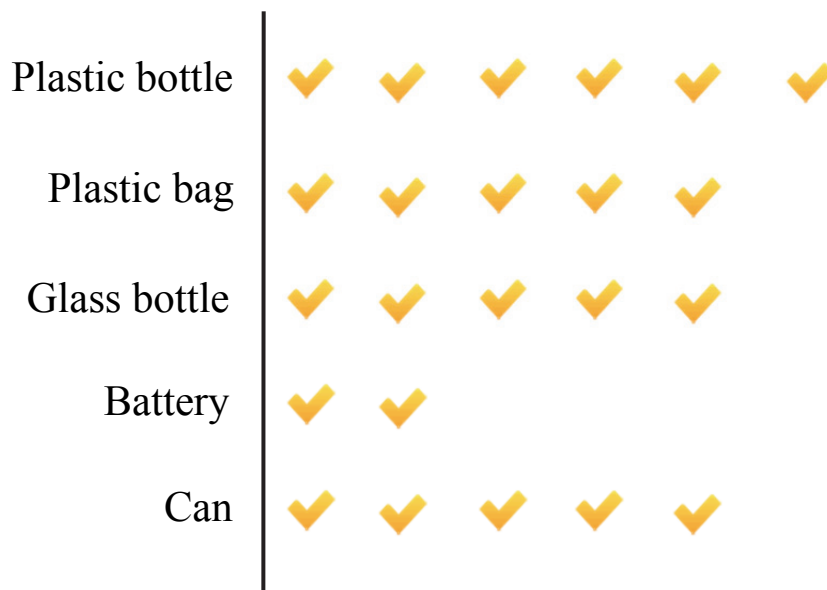
- ☐ A. $(10 + y) \times 5$
- ☐ B. $(5 + y) \times 10$
- ☐ C. $10 + 5y$
- ☐ D. $10y + 5$

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.

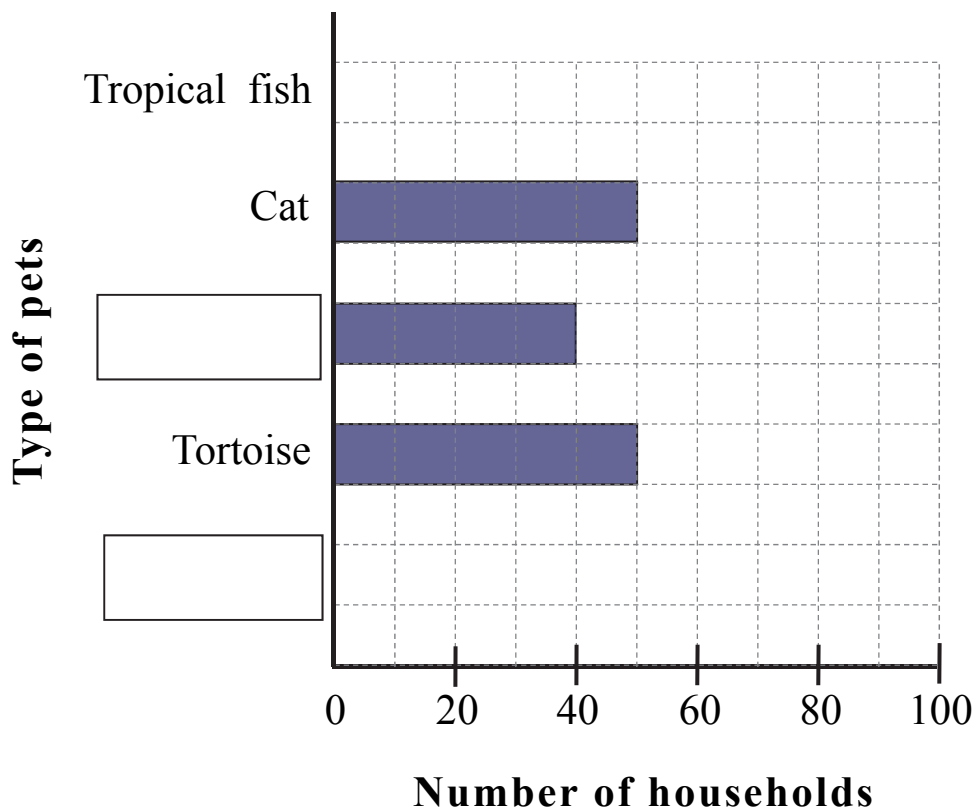
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35. The table below shows the results of a survey on pets kept by the residents of Peace Estate.

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)



Please do not write in the margin.

Please do not write in the margin.

36. Find the average of the five numbers below.

25 , 30.5 , 39 , 50 , 55.5

Answer: The average is _____ .

— END OF PAPER —

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