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Please stick the barcode label in the box

Education Bureau
Territory-wide System Assessment 2013
Primary 6
Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 42 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

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Class
班別

6	
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Class
No.
班號

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

1. Arrange the following numbers from the largest to the smallest.

17 968 , 9 025 , 18 340

Answer: _____ , _____ , _____
(Largest) (Smallest)

2. 34 is a factor of

- ☐ A. 1.
☐ B. 17.
☐ C. 68.
☐ D. 92.

3. Which of the following numbers are common multiples of 4 and 18? (Circle all the answers)

2

18

36

48

72

4. List all the common factors of 6 and 54.

Answer: _____

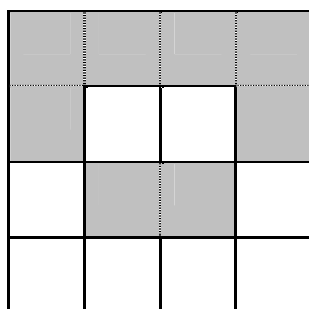
5. The Least Common Multiple (L.C.M.) of 8 and 22
is _____ .

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6. Shade the squares in the diagram below, so that the shaded part is $\frac{3}{4}$ of the whole.



7. Fill in the box with the correct number.

$$\frac{18}{54} = \frac{\boxed{}}{9}$$

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

$$\frac{4}{5}, \quad \frac{7}{8}, \quad \frac{5}{6}$$

Answer:

Please do not write in the margin.



9. Which of the following fractions is the largest?

$$\frac{33}{8} \quad , \quad \frac{29}{7} \quad , \quad \frac{18}{7}$$

Answer :

10. In the number 1.235, what is the value represented by the digit '3'?

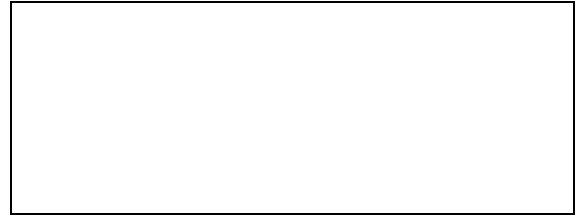
- ☐ A. 3
- ☐ B. $\frac{3}{10}$
- ☐ C. $\frac{3}{100}$
- ☐ D. $\frac{3}{1000}$

11. $34 \times (12 + 48) =$ _____

12. $\frac{5}{7} + \frac{1}{6} =$

13. $11\frac{2}{5} \div \frac{3}{10} =$

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14. $16 \div 2.5 =$ _____

15. The fruit shop has 120 L of pineapple juice. Every $\frac{2}{3}$ L is filled in a bottle. How many bottles can be filled?

Answer: _____ bottles can be filled.

16. A box of cookies costs \$39.90. Susan has \$200.50. Which of the following expressions is most suitable for estimating how many boxes of cookies she can buy at most?

- ☐ A. $200 \div 30$
- ☐ B. $200 \div 40$
- ☐ C. $300 \div 30$
- ☐ D. $300 \div 40$

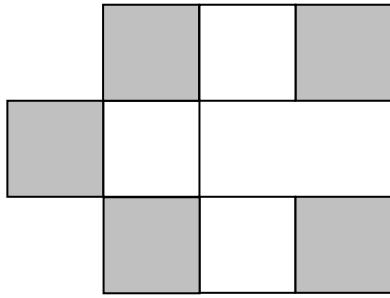
17. A volunteer team spent 3.5 hours collecting 56 kilograms of litter. How many kilograms of litter was collected per hour on average?

Answer: _____ kilograms of litter was collected per hour on average.

Please do not write in the margin.



18. What percentage of the whole figure below is the shaded part?



Answer: The shaded part is _____ % of the whole figure.

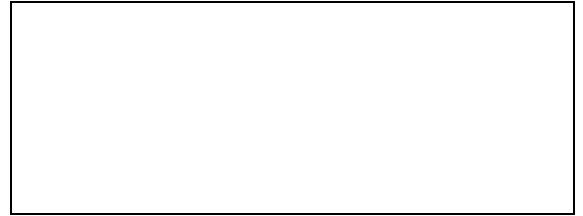
19. The original amount on Gloria's stored value card was \$20.10. She spent \$5.30 on transport. Then she added a value of \$50. How much is on her card now?

Answer: \$ _____ is on her card now.

20. A football costs \$36.40. A basketball is \$3.80 cheaper than a football. A P.E. teacher buys a football and a basketball. How much should he pay altogether?
(Show your working)

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21. A department store has 200 employees and 60% of them are female.

(a) _____ % of the employees are male.

(b) There are _____ female employees in the department store.

22. Sports shoes of the same brand are sold in two shops.

Shop A



Shop B



Shop	Original Price	Special Offer
A	\$400.00	30% Off
B	\$300.00	10% Off

Tom buys a pair of sports shoes of this brand in Shop B.

He will pay \$ _____ * more / less if he buys them in Shop A. (* Circle the answer)

Please do not write in the margin.



Please do not write in the margin.

23. There is dirt on the November calendar.

November						
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	29			

(a) The 30th of October is _____ .
(day of a week)

(b) The school ‘Mathematics Week’ starts on the fourth Monday of November.

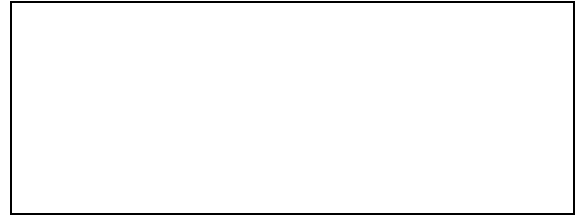
That day is the _____ of _____ .
(month)

(c) The ‘Mathematics Week’ lasts for 5 days.

It will end on the _____ of _____ .
(month)

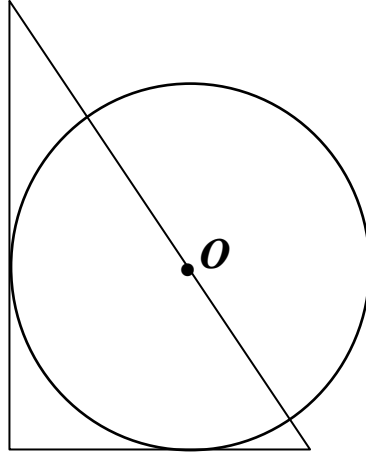
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24. A teacher draws a triangle and a circle. **O** is the centre of the circle.



- (a) The teacher draws
* a right-angled / an isosceles / an equilateral triangle. (* Circle the answer)
- (b) Use a ruler to measure the diameter of the circle.

Answer: The diameter is about _____ mm.
(Give your answer as a whole number)

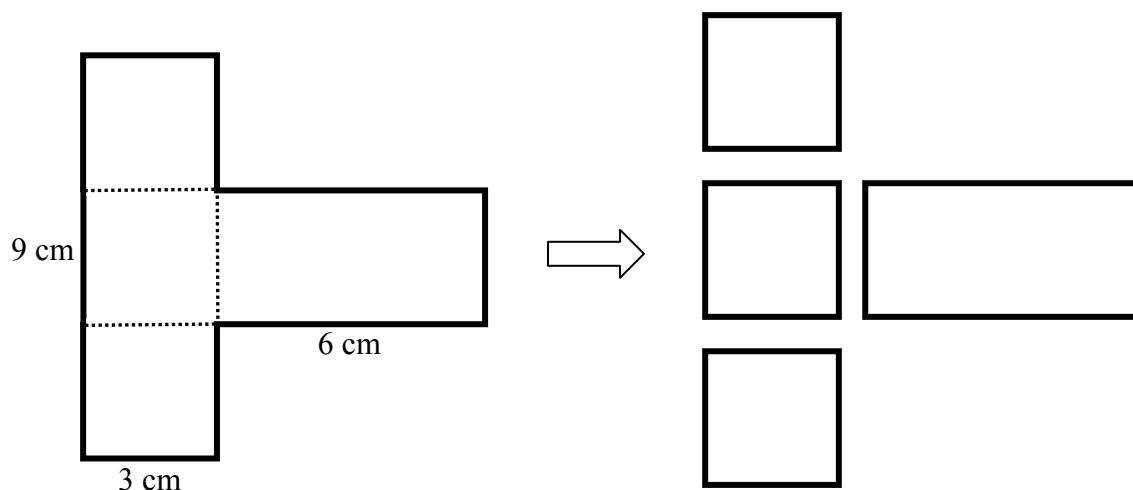
25. Fill in the following blanks with suitable units.

- (a) The length of a long-distance race is about
10 _____ .
- (b) A luggage weighs about 20 _____ .
- (c) The capacity of a hot water bag
is about 1.5 _____ .



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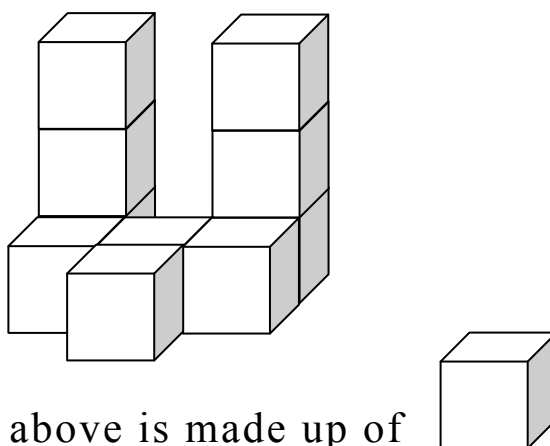
26.



The figure on the left can be divided into a rectangle and three squares.

- (a) The perimeter of the rectangle is _____ cm.
- (b) The perimeter of a square is _____ cm.

27.



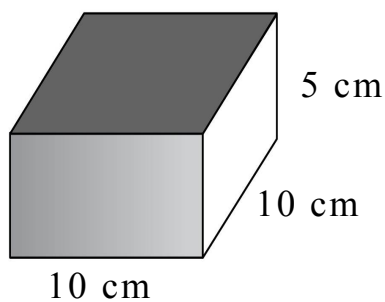
The solid shown above is made up of _____ .

The volume of each _____ is 1 cm^3 . The volume of the solid is _____ .

(Give the answer with a unit)

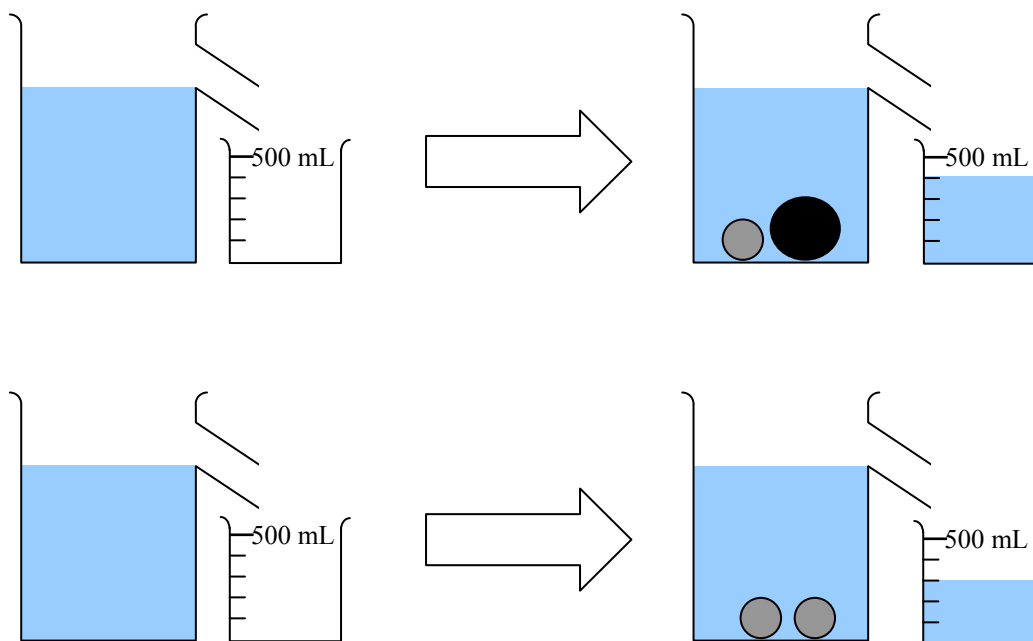
Please do not write in the margin.

28.



The volume of the cuboid above is _____ .
(Give your answer with a unit)

29.



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

Please do not write in the margin.

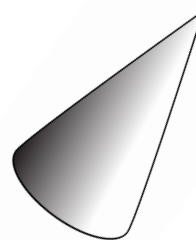
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30. Peter ran a race of 20.4 km. He finished the race in 2 hours. What was his average speed over the whole journey?
(Show your working)

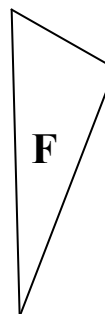
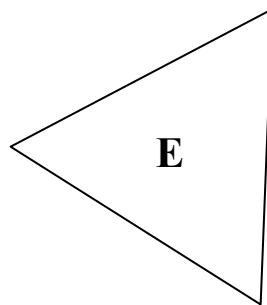
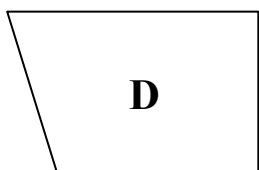
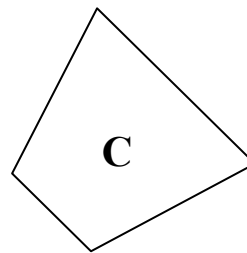
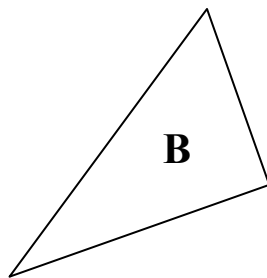
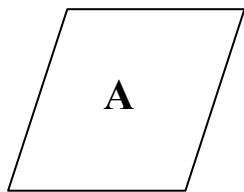
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31. The 3-D shape on the right is a

- ☐ A. cone.
- ☐ B. sphere.
- ☐ C. cylinder.
- ☐ D. prism.

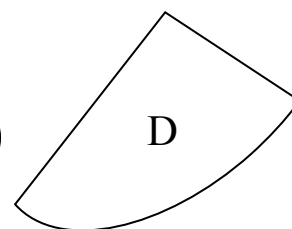
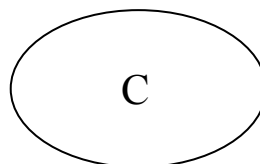
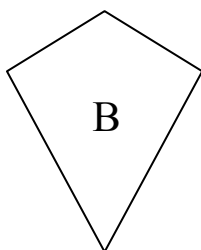
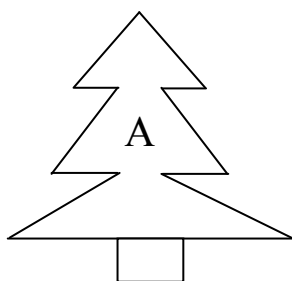


32. Study the 2-D shapes below. Write the letter(s) for the answer.



- (a) Trapezium: _____
 (b) Equilateral triangle: _____

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



- (a) Which of the 2-D shapes above is / are made up of curves only?

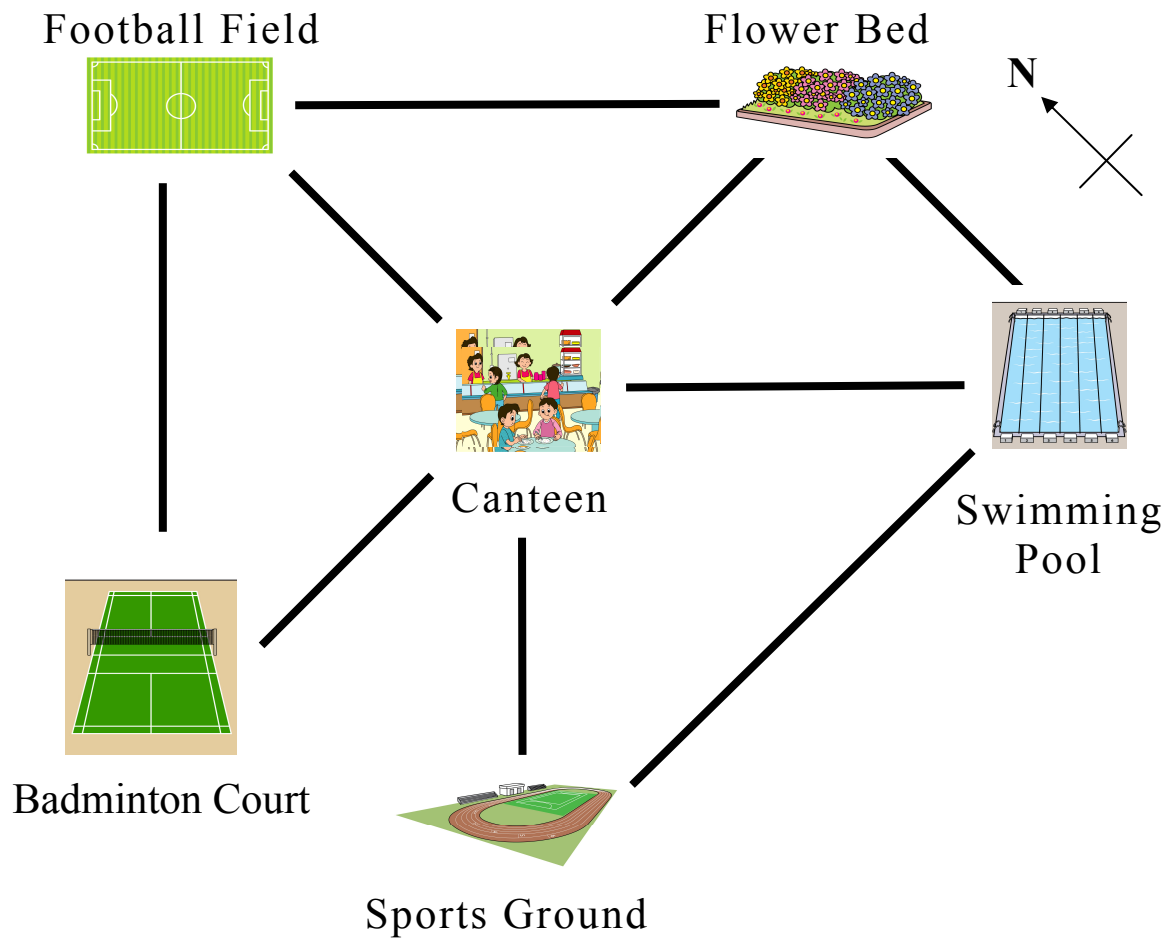
Answer: _____

- (b) Which of the 2-D shapes above is / are made up of straight lines and curves?

Answer: _____

34.

Map of Sports City



(a) Sports Ground is to the _____ of Canteen.
(direction)

(b) If Tom goes east from Canteen, he will arrive at

- ☐ A. Swimming Pool.
- ☐ B. Flower Bed.
- ☐ C. Football Field.
- ☐ D. Badminton Court.

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35. A fast food shop has M employees. One-eighth of them are cashiers. How many cashiers are there?

- ☐ A. $\frac{8}{M}$
- ☐ B. $8M$
- ☐ C. $\frac{M}{8}$
- ☐ D. $\frac{1}{8M}$

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

- A. $3 + 20n = 600$
- B. $5y - 2$
- C. $100 - (20b + 50)$
- D. $\frac{9 + 12}{7} = 3$
- E. $\frac{K}{4} = 0$

Answer: _____

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37. $55 = x - 20$

$x =$

38. $\frac{t}{5} - 2 = 18$

$t =$

39. The sum of a number and 12 is multiplied by 5. The result is equal to 160.

Find the number by *the method of solving an equation*.
(Show your working)

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40. Vivian bought a doll with her savings of the last three months.

The following is her record of savings:

March	April	May
\$50	\$40	\$54



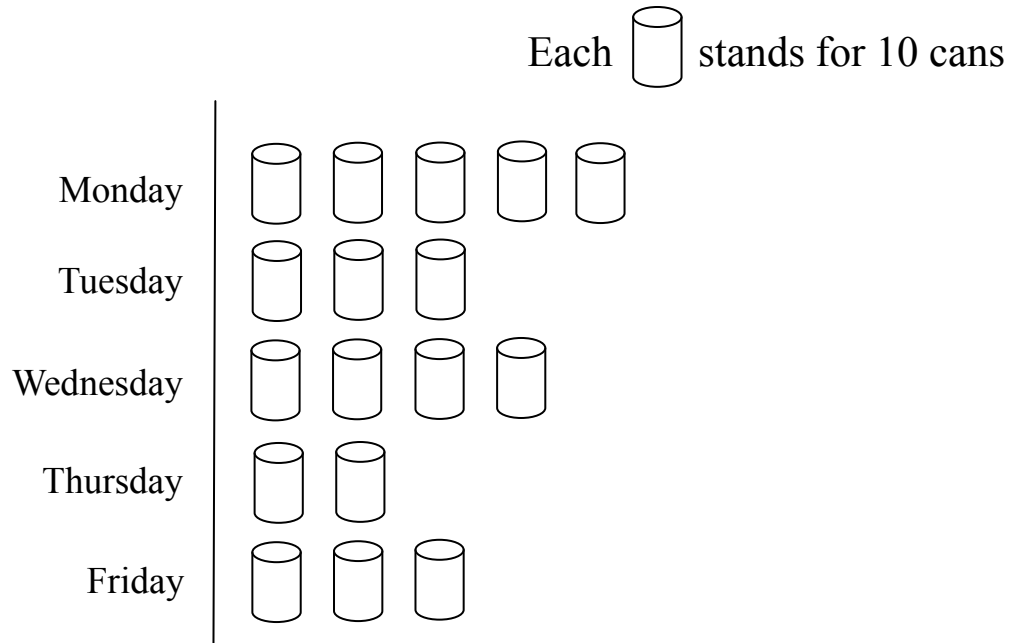
What is Vivian's average monthly savings?
(Show your working)

Blank area for showing working.

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41. Class 6A held the 'Can Recycling' activity last week. They counted the number of cans collected and constructed the pictogram below.

**Number of Cans Collected by
Class 6A Last Week**

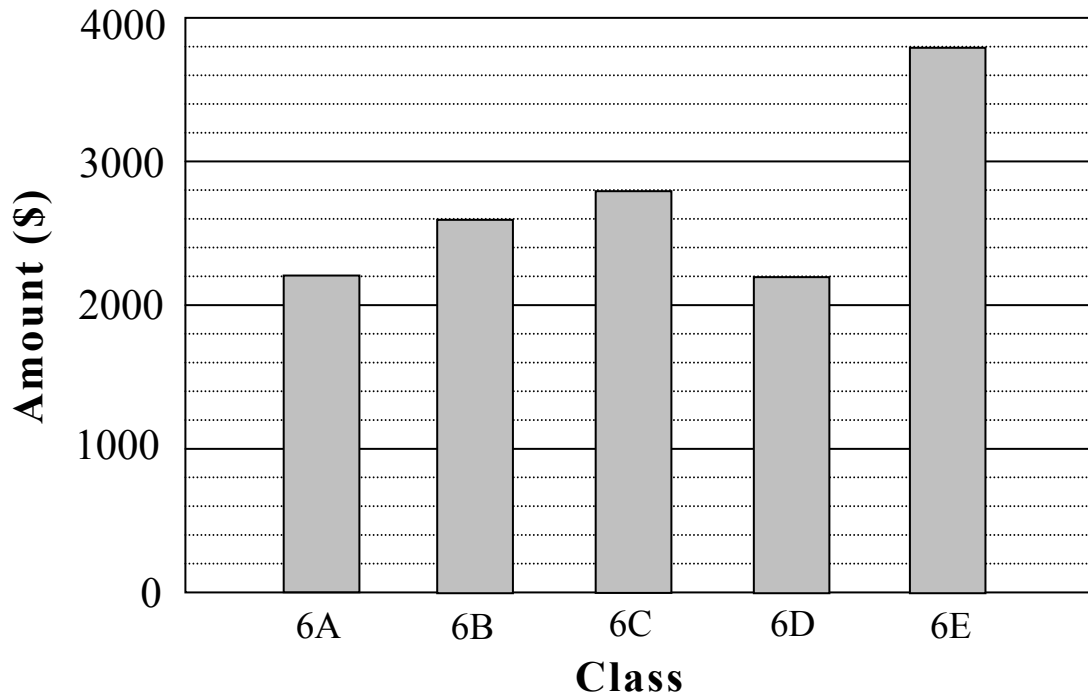


- (a) The number of cans collected on Thursday was _____ .
- (b) Most cans were collected on _____ and
(day of a week)
the number of cans collected was _____ .
- (c) In the 'Can Recycling' activity, _____ cans were collected altogether.

Please do not write in the margin.

42. A school held a fundraising walk. The following bar chart shows the amount of money raised by the Primary Six classes.

Amount of Money Raised by Primary Six Classes



- (a) The largest amount was raised by Class _____ .
- (b) The total amount raised by all Primary Six classes was \$ _____ .
- (c) A certificate will be given to the class which has raised M dollars or more. If only Class 6C and Class 6E can get the certificates, what may M be? Why?

Answer: M may be _____ because _____

_____ .

— END OF PAPER —

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