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HKEAA'S USE ONLY

Education Bureau
Territory-wide System Assessment 2020
Primary 6
Mathematics

CANCELLED

Gainful Use of TSA 2020 Materials

Instructions:

1. There are 43 questions in this test. Answer all questions.
2. Estimated time for completion is 55 minutes.
3. Write your answers in this Question-Answer Booklet.
4. Do not write in the margins.
5. Use of calculators is not allowed.
6. Do your rough work on rough work sheet.
7. 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) 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

◆ 2020 年小六全港性系統評估是學校以自願形式參與，而非全體小六學生參與的全港性系統評估。
School participation in the 2020 P6 TSA is on a voluntary basis. As a result, this is a TSA in which not all P6 students will participate.

1. Which of the following numbers has the digit '7' in its ten thousands place?

☐ A. 70.345
☐ B. 7 980
☐ C. 72 609
☐ D. 753 002

2. Which of the following numbers is a multiple of 18?

☐ A. 9
☐ B. 64
☐ C. 78
☐ D. 90

3. List all the factors of 27.

Answer: _____

4. Which of the following numbers is a common multiple of 24 and 36?

☐ A. 72
☐ B. 48
☐ C. 12
☐ D. 8

Please do not write in the margin.

Please do not write in the margin.

5. Which of the following numbers are common factors of 15 and 45?

(Circle all the answers)

1

3

15

30

45

6. The Least Common Multiple (L.C.M.) of 6 and 15 is

- ☐ A. 90.
☐ B. 30.
☐ C. 3.
☐ D. 1.

7. Which of the following fractions are equal to 1?

(Circle all the answers)

$\frac{1}{6}$

$\frac{5}{5}$

$\frac{11}{10}$

$1\frac{3}{3}$

$\frac{14}{14}$

8. (a) Change $\frac{62}{3}$ into a mixed number.

Answer:

- (b) Fill in the box with a correct number.

$$\frac{6}{13} = \frac{\boxed{}}{39}$$

9. In the number 357.426, what is the digit in the hundredths place?

- ☐ A. '2'
- ☐ B. '3'
- ☐ C. '4'
- ☐ D. '6'

10. Change $\frac{9}{11}$ into a decimal correct to two decimal places.

Answer: _____

11. When 720 is divided by 14, the quotient is _____
and the remainder is _____ .

Please do not write in the margin.

12. $\frac{1}{2} + 5\frac{2}{3} - 1\frac{3}{4} =$

13. $3\frac{1}{2} \div 1\frac{5}{9} =$

14. $17.6 + 2.04 - 5.9 =$ _____

15. $7 \times 2.5 \times 0.6 =$ _____

16. There are 12 pieces of fruit in a basket. $\frac{2}{3}$ of them are apples. $\frac{1}{6}$ of them are pears. The number of apples is _____ more than that of pears.

17. The rainfall is 200 mm in May. The rainfall in June is $1\frac{3}{4}$ times that of May. The total rainfall is _____ mm in May and June.

Please do not write in the margin.

18. Amy pours 2 litres of milk into 8 glasses equally.

Each glass holds _____ litre(s) of milk.

(Give the answer in decimals)

- 19.



\$32.5



\$59.0

Lily, Ken and Mary buy a pen and a bag for their parents.

Each of them pays _____ dollars on average.

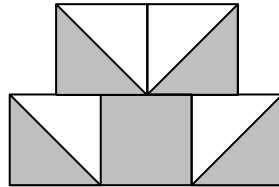
20. (a) Change $\frac{11}{200}$ into a percentage.

Answer: _____ %

- (b) Change 30.5% into a decimal.

Answer: _____

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



Answer: _____ % of the whole figure is shaded.

22. The original price of a television was \$9 900. Now the price has increased by 2.4%. Which of the following expressions is most suitable for estimating the selling price of the television?

- ☐ A. $9\,000 \times (1 + 2\%)$
- ☐ B. $9\,000 \times (1 + 3\%)$
- ☐ C. $10\,000 \times (1 + 2\%)$
- ☐ D. $10\,000 \times (1 + 3\%)$

23. Fill in the following blanks with suitable units.

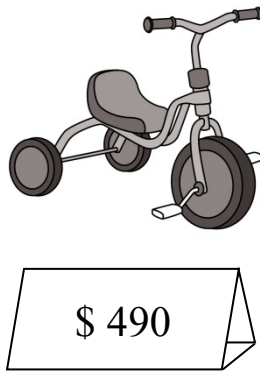
(a) A paper clip is about 30 _____ long.

(b) An umbrella weighs about 300 _____ .

Please do not write in the margin.

Please do not write in the margin.

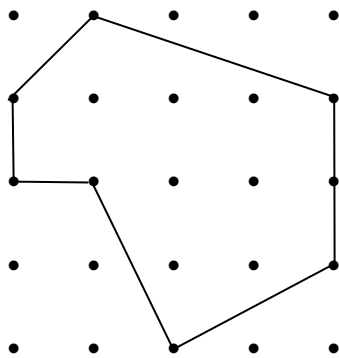
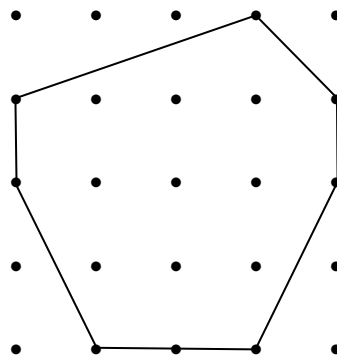
24.



Jenny buys a tricycle at 20% off.

She should pay _____ dollars.

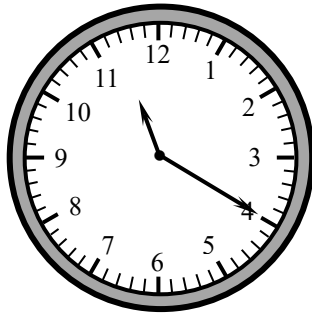
25.

**X****Y**

Study the diagrams above. Which of the following statements is correct?

- ☐ A. The perimeters of **X** and **Y** are the same.
- ☐ B. The perimeter of **X** is longer than that of **Y**.
- ☐ C. The perimeter of **X** is shorter than that of **Y**.
- ☐ D. The perimeters of **X** and **Y** cannot be compared.

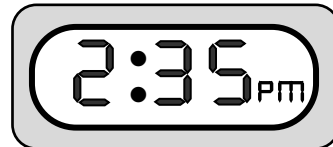
26. Minnie held a birthday party at home.



- (a) The clock above showed the starting time of the birthday party.

The time was _____ : _____ a.m.

- (b) The birthday party ended at



In '24-hour time', the birthday party ended

at _____ : _____ .

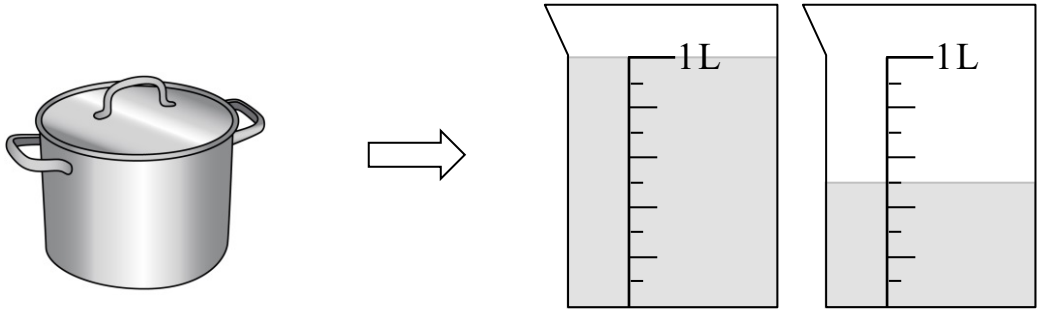
- (c) The birthday party lasted for

_____ hour(s) and _____ minute(s).

Please do not write in the margin.

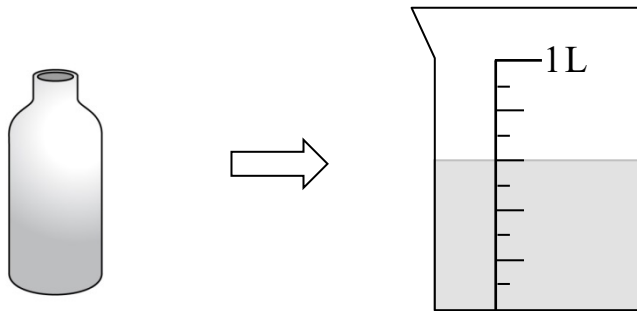
Please do not write in the margin.

27. (a) Fill up a pot with water. Then pour all the water in the pot into two measuring cups.



The capacity of the pot is _____ L.

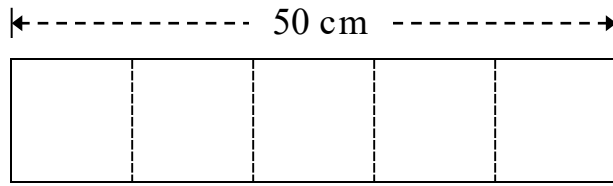
- (b) Fill up a bottle with water. Then pour all the water in the bottle into a measuring cup.



The capacity of the bottle is _____ mL.

- (c) The capacity of the pot is _____ mL * more / less than that of the bottle.
(*Circle the answer)

28.

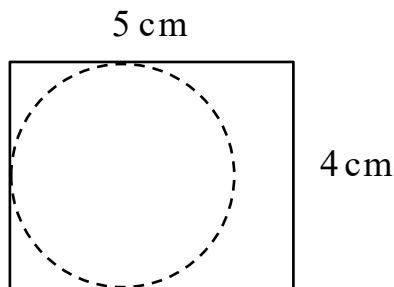


The rectangle above can be divided into 5 equal squares.

(a) The perimeter of each square is _____ cm.

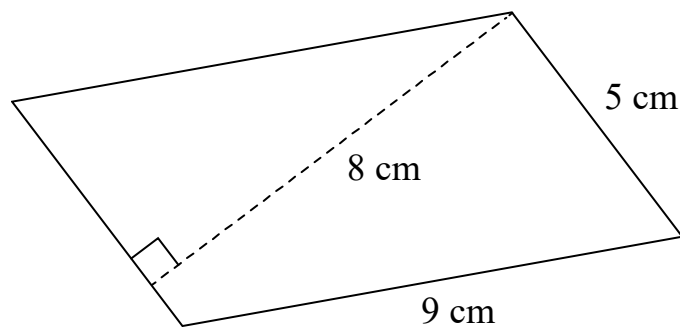
(b) The perimeter of the rectangle is _____ cm.

29.



Kitty cuts out the largest circle from the rectangular paper above. The circumference of the circle is _____ cm. (Take π as 3.14)

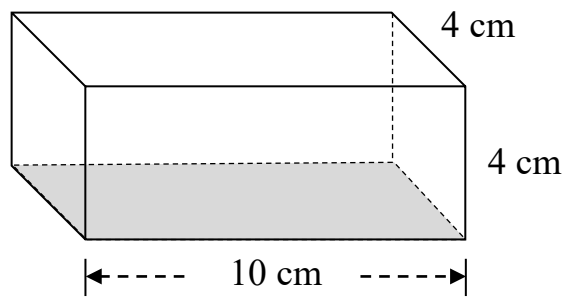
30.



The figure above is a parallelogram.

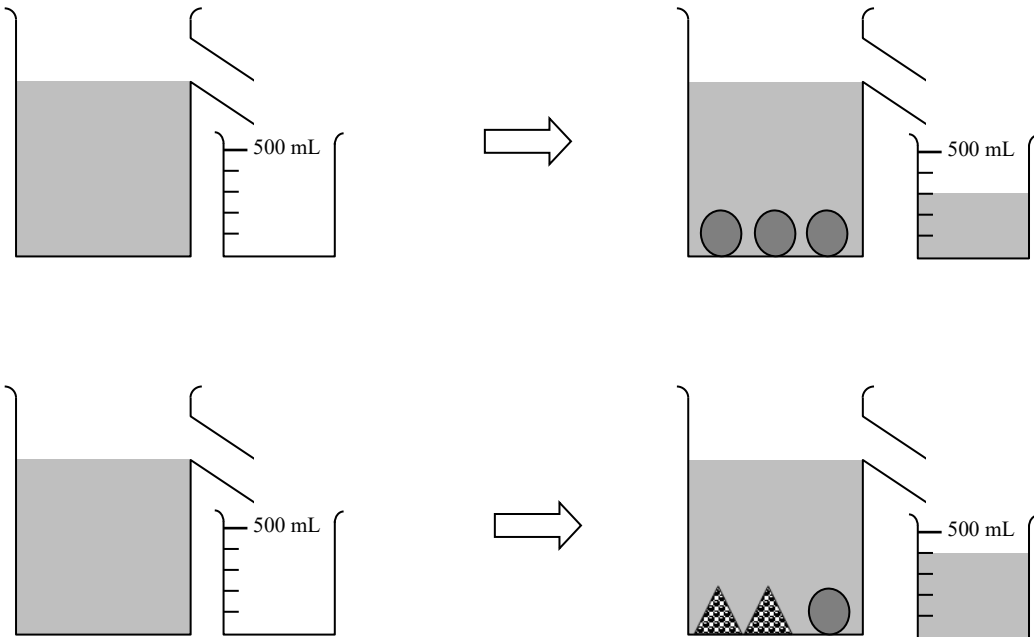
Its area is _____ cm^2 .

31.



The capacity of the rectangular container above is _____ mL.

32.



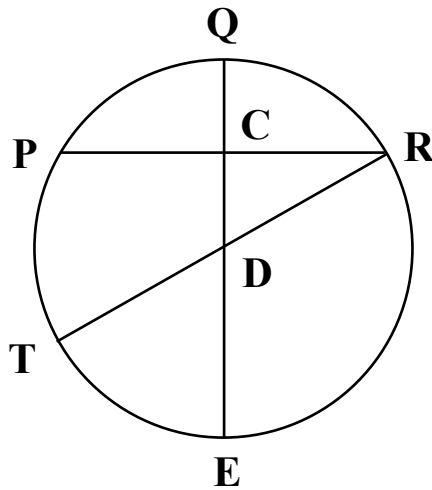
(a) The volume of one  is _____ cm^3 .

(b) The volume of one  is _____ cm^3 .

33. The flight speed of a helicopter is about

- ☐ A. 200 km/h.
- ☐ B. 200 h.
- ☐ C. 200 km.
- ☐ D. 200 h/km.

34. In the figure below, the lines **QE** and **RT** are diameters of the circle.



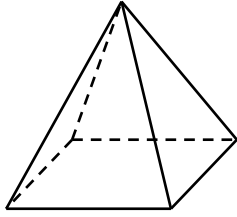
(a) Which point is the centre of the circle?

Answer: Point _____ is the centre of the circle.

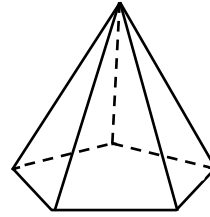
(b) The line * **PR** / **CR** / **DE** is a radius of the circle.

(*Circle the answer)

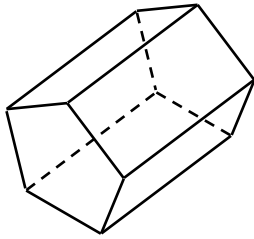
35. Which of the following 3-D shapes has 5 faces and 6 vertices?



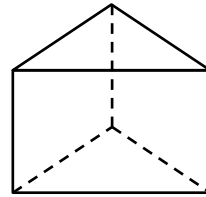
☐ A.



☐ B.

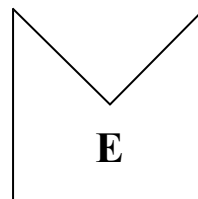
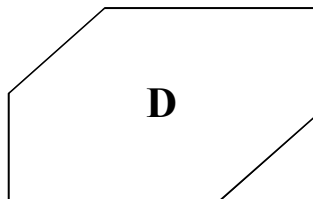
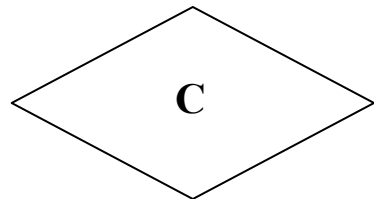
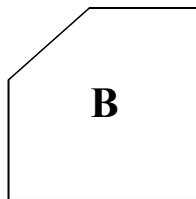
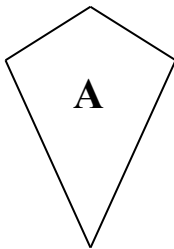


☐ C.



☐ D.

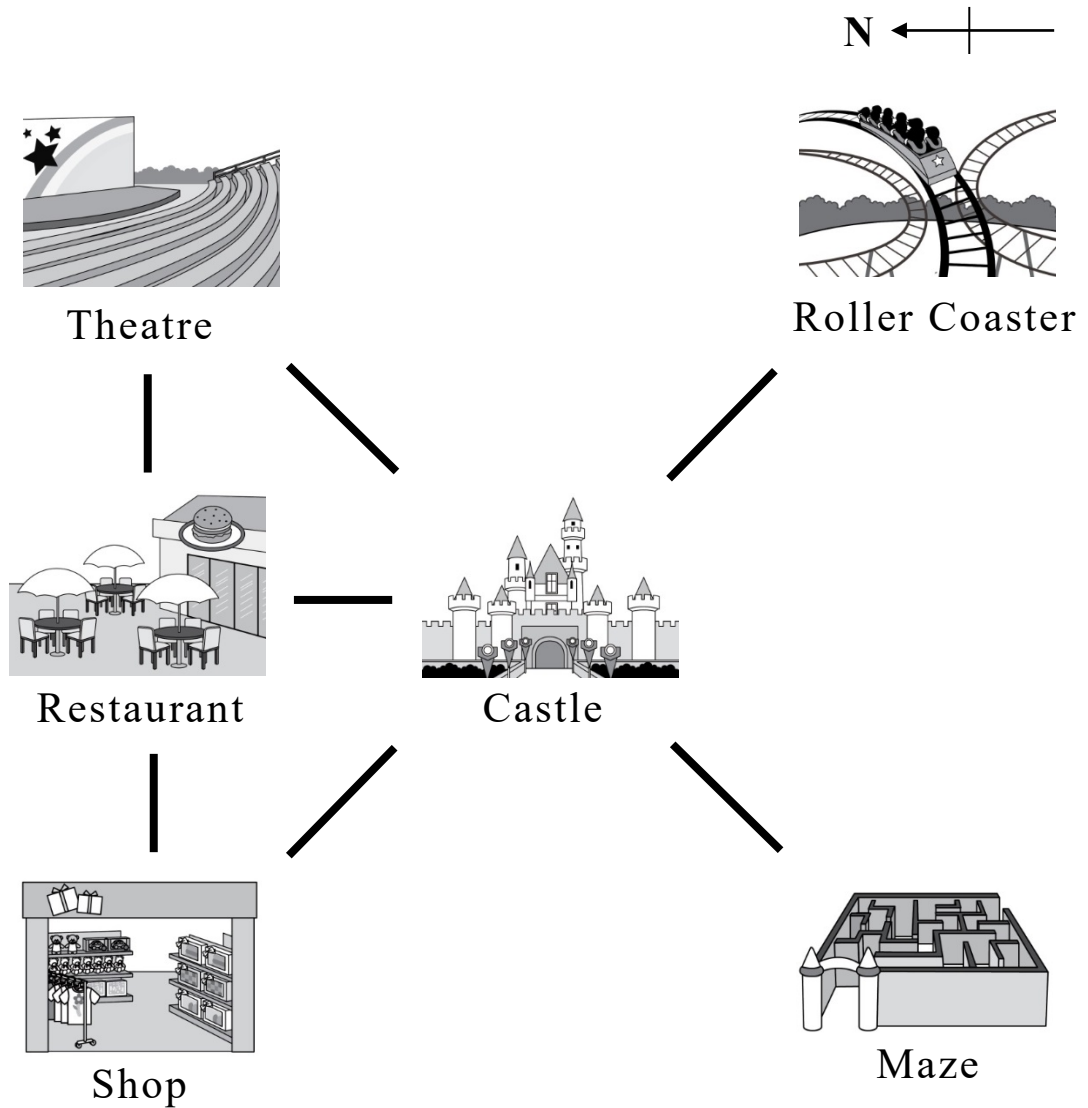
36. Study the 2-D shapes below. Write all the letters for the answers.



(a) Rhombus: _____

(b) Pentagon: _____

37. The location map of a theme park is shown below.



- (a) Starting from Castle, Jenny goes _____ to
(direction)
reach Restaurant. Then she turns _____ to
(direction)
reach Theatre.
- (b) Maze is to the _____ of Castle.
(direction)

38. Which of the following is an equation?

☐ A. $8 - 3 = 5$

☐ B. $x + 7$

☐ C. $6 = x + 2$

☐ D. $\frac{x}{7}$

39. $\frac{y}{3} - 1 = 7$

$y =$

40. Each adult ticket for a concert costs 355 dollars. The price of an adult ticket is 40 dollars higher than that of three child tickets. The price of each child ticket is _____ dollars.

(Find the answer by the method of solving an equation)

41. The monthly snowfall in the first quarter of Country A and Country B are shown below.

Country A

Month	Snowfall (mm)
January	52.1
February	50.4
March	24.1

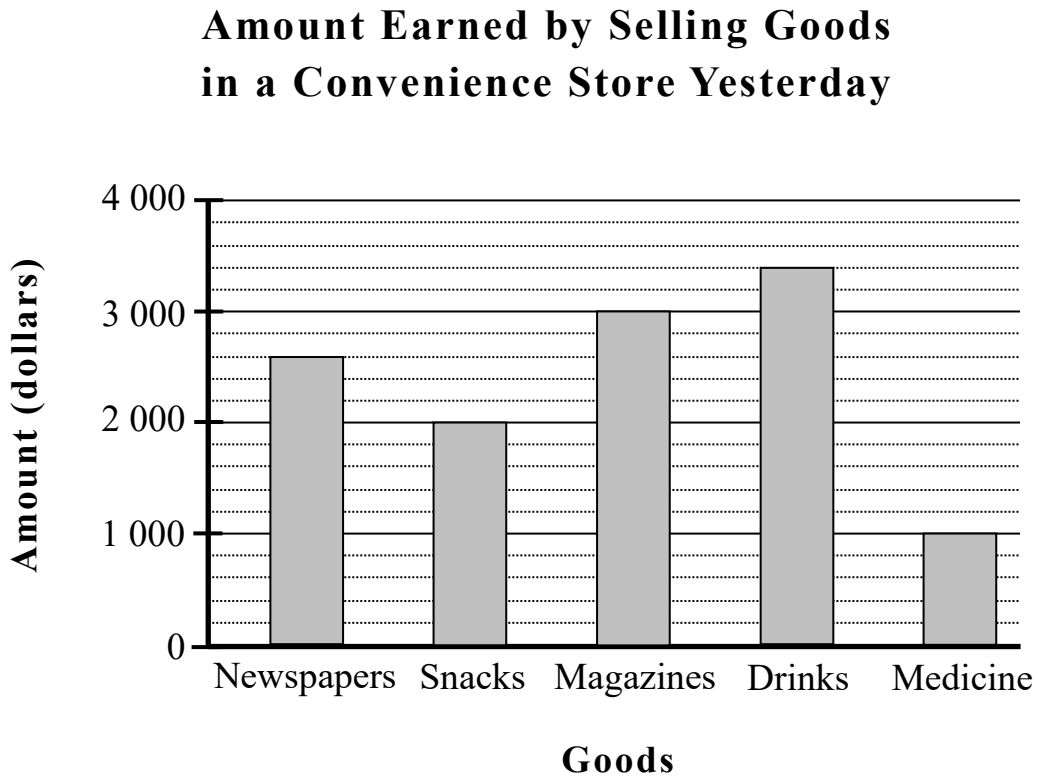
Country B

Month	Snowfall (mm)
January	45.6
February	42.6
March	20.3

The average snowfall in the first quarter of Country A

- ☐ A. is less than that of Country B.
- ☐ B. is more than that of Country B.
- ☐ C. is equal to that of Country B.
- ☐ D. cannot be compared with that of Country B.

42. The following bar chart shows the amount earned by selling goods in a convenience store yesterday.

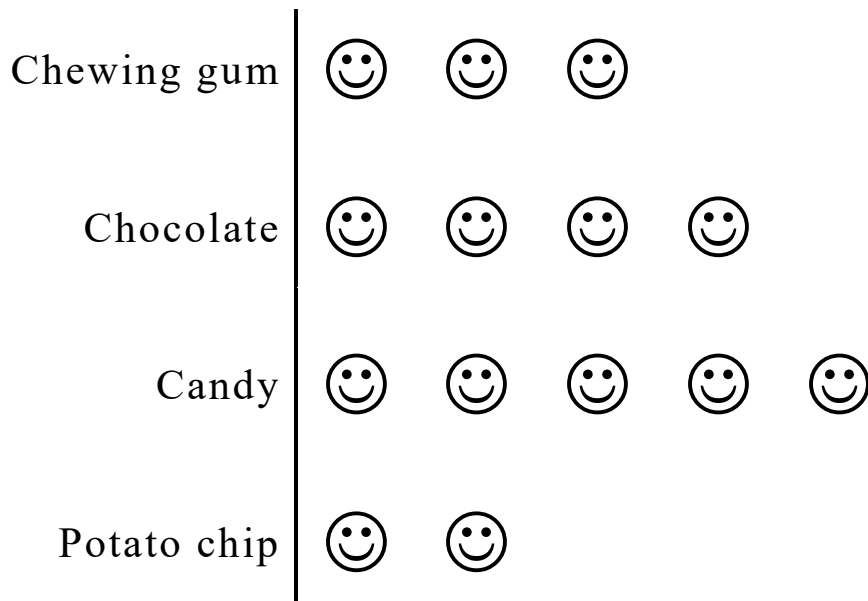


- (a) The amount earned by selling _____
was the most. The amount was _____ dollars.
- (b) The amount earned by selling newspapers was
_____ dollars * more / less than that of
medicine.
- (*Circle the answer)

43. The following pictogram shows the sales of different kinds of snacks at Tasty House last month.

**Sales of Different Kinds of Snacks
at Tasty House Last Month**

Each ☺ stands for 100 packs



- (a) A total of _____ packs of chewing gum were sold last month.
- (b) The sales of potato chips last month were _____ % of the sales of candy.

— END OF PAPER —

