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Please stick the barcode label in the box

Education Bureau
Territory-wide System Assessment 2012◆
Primary 6
Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 41 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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↑
此格只許填寫一個大楷英文字母
Write one capital letter in this box

◆2012 年小六全港性系統評估暫停舉行。此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。
The 2012 P6 TSA has been suspended. Participation in the 2012 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 '5' in the thousands place and the digit '8' in the tens place?

☐ A. 15 080
☐ B. 15 800
☐ C. 51 080
☐ D. 51 800

2. Which of the following numbers is **not** a factor of 25?

☐ A. 1
☐ B. 5
☐ C. 25
☐ D. 50

3. List all the factors of 62.

Answer: _____

4. Fill in each of the following boxes with the correct number.

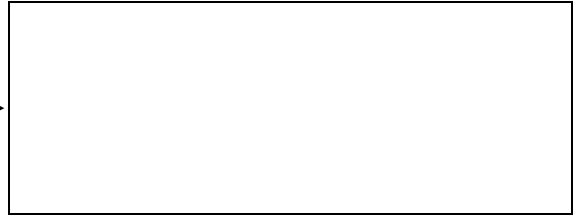
(a)

$$\frac{4}{\boxed{}} = 4$$

(b)

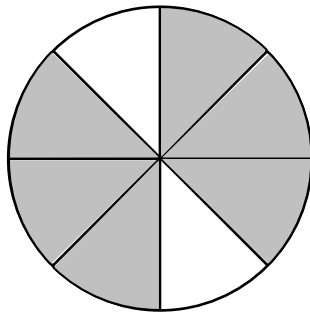
$$\frac{\boxed{}}{4} = 4$$

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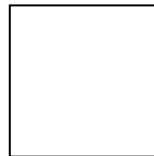


Please do not write in the margin.

5. (a) Within 50, all the common multiples of 6 and 9
are _____ .
- (b) The Least Common Multiple (L.C.M.) of 6 and 9
is _____ .
6. Express the shaded part as a fraction of the whole figure
below.



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



Please do not write in the margin.



7. (a) Change $3\frac{4}{7}$ into an improper fraction.

Answer:

- (b) Change $\frac{37}{6}$ into a mixed number.

Answer:

8. Which of the following fractions is the largest?
(Circle the answer)

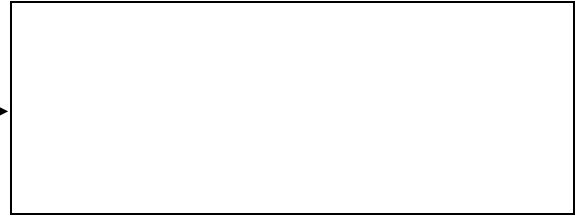
$$4\frac{3}{4} \quad , \quad \frac{23}{5} \quad , \quad 4\frac{1}{2}$$

9. In the number 521.394, the digit '9' is in the _____ place.

10. $576 + 224 \div 16 =$ _____

11. $25 \times 126 =$ _____

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12. In the number 26.47, which digit stands for the smallest value?

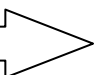
- ☐ A. '2'
- ☐ B. '4'
- ☐ C. '6'
- ☐ D. '7'

13. $4\frac{1}{9} - 3\frac{1}{6} =$

14. $\frac{3}{5} - \frac{1}{5} \div \frac{2}{5} =$

- ☐ A. $\frac{1}{10}$
- ☐ B. $\frac{4}{25}$
- ☐ C. $\frac{13}{25}$
- ☐ D. 1

Please do not write in the margin.



15. $62.8 + 5.36 - 7.54 =$ _____

16. $3.84 \div 2.4 =$ _____

17. The area of the living room is $9\frac{5}{6}$ m². The area of the dining room is $4\frac{3}{8}$ m² smaller than the living room.

Find the total area of the living room and the dining room.
(Show your working)




18. (a) Change $\frac{3}{8}$ into a percentage.

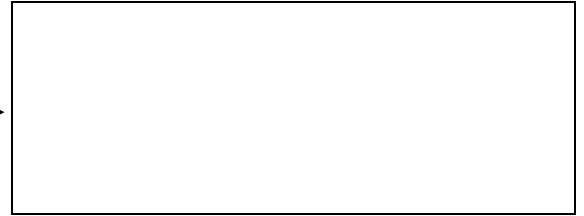
Answer: _____ %

- (b) Change 148% into a fraction and reduce it to the simplest form.

Answer:



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19. There are originally 3.6 L of soya sauce in a canteen. The shopkeeper buys 5.2 L more. All the soya sauce is then poured into bottles. The capacity of each bottle is 0.4 L. How many bottles can be filled?
(Show your working)

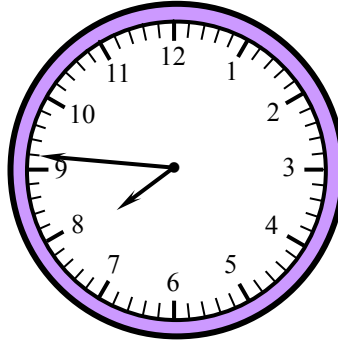
20. A bottle of green tea costs 9 dollars and 60 cents. A bottle of apple juice is 1 dollar and 80 cents cheaper. May wants to buy a bottle of each. She needs to pay a total of _____ dollars and _____ cents.

21. There are 800 students in a school. If there are 360 boys, what percentage of the students are girls?

Answer: _____ % of the students are girls.


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22. The clock below shows the time that Mary got on the school bus in the morning.

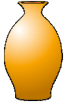


- (a) She got on the school bus at _____ minutes to _____ .
- (b) The school bus reached school after 20 minutes. In '24-hour time', the time was _____ : _____ .

23. Fill in each blank with a suitable unit of measurement.

- (a) A reusable shopping bag  weighs about 30 _____ .

- (b) The height of a flagpole  is about 6.5 _____ .

- (c) The capacity of a vase  is about 500 _____ .

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24. The following table shows the starting times of the ‘Magic Show’ in a theme park.

	Starting Time
First Show	13:15
Second Show	15:20
Third Show	17:40

- (a) The second magic show starts at _____ minute(s) * past / to _____ in the * morning / afternoon. (*Circle the answer)

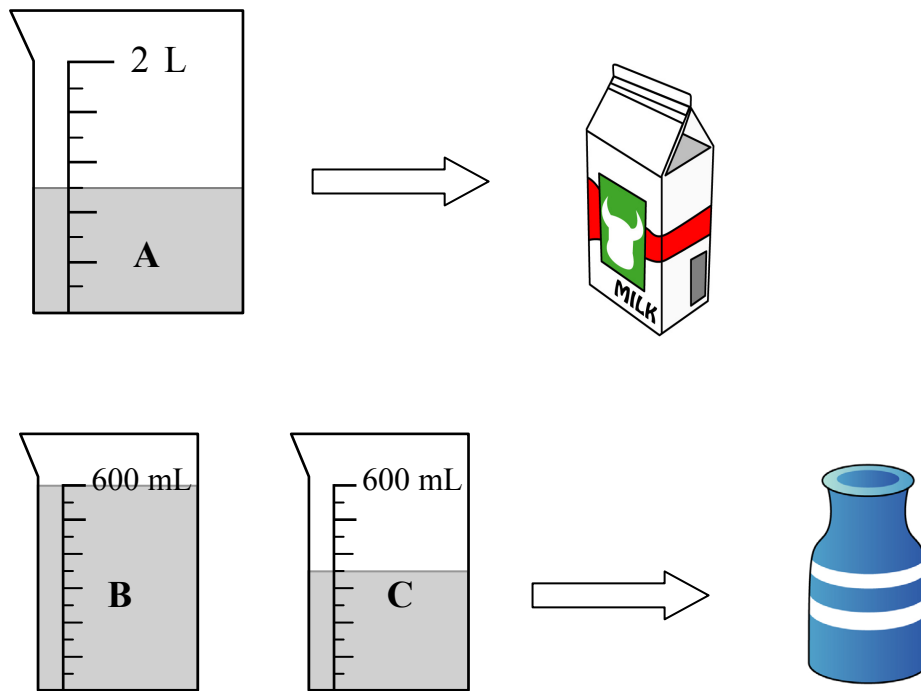
- (b) There are _____ hours(s) and _____ minute(s) between the starting times of the first show and the third show.

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Please do not write in the margin.



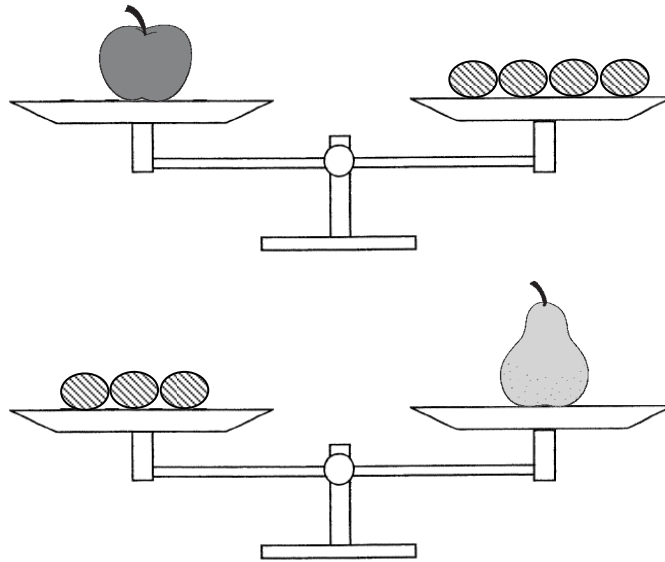
25.



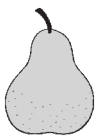

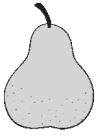


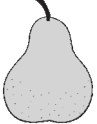


- (a) All the water in Beaker A just fills up the milk carton. The capacity of the milk carton is _____ mL.
- (b) All the water in Beaker B and Beaker C just fills up the jar. The capacity of the jar is _____ L.
- (c) The capacity of the milk carton is
 * larger than / smaller than / equal to that of the jar. (* Circle the answer)

26. The diameter of a circular fish pond is 2.9 m. Mr Lam builds a fence around the fish pond. The length of the fence is about _____ m. (Give the answer as a whole number)

27.



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

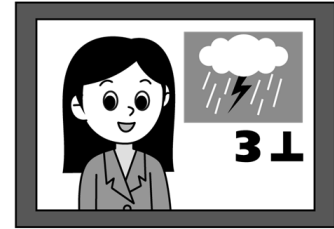
- ☐ A.  and  weigh the same.
- ☐ B.  is heavier than .
- ☐ C.  is heavier than .
- ☐ D.  is lighter than .

28. Which of the 3-D shapes below has 6 faces and 10 edges?

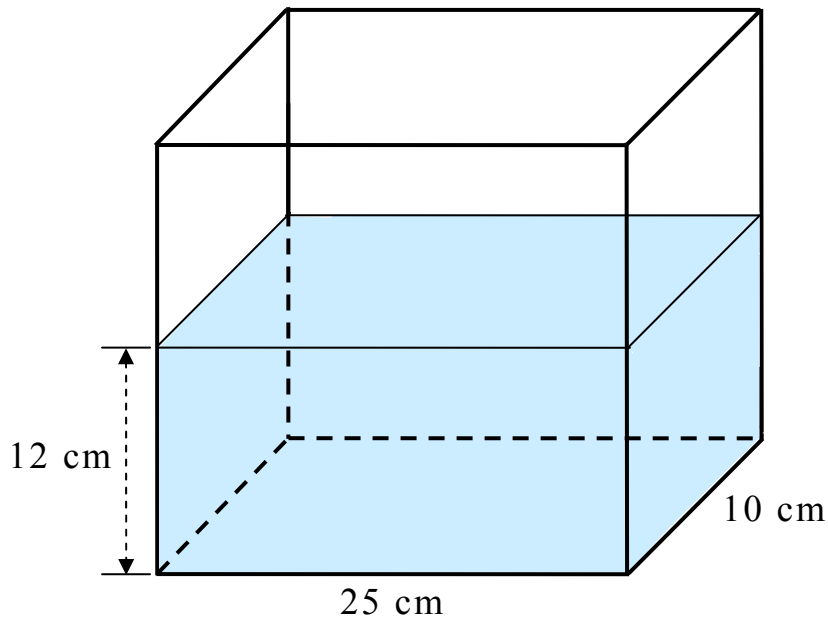
- ☐ A. Rectangular prism
- ☐ B. Hexagonal pyramid
- ☐ C. Pentagonal pyramid
- ☐ D. Pentagonal prism

29. The No.3 Tropical Storm Signal is in force. Now, the average wind speed is about 45


- ☐ A. kilometres per second.
- ☐ B. kilometres per hour.
- ☐ C. kilometres.
- ☐ D. metres per hour.



30.

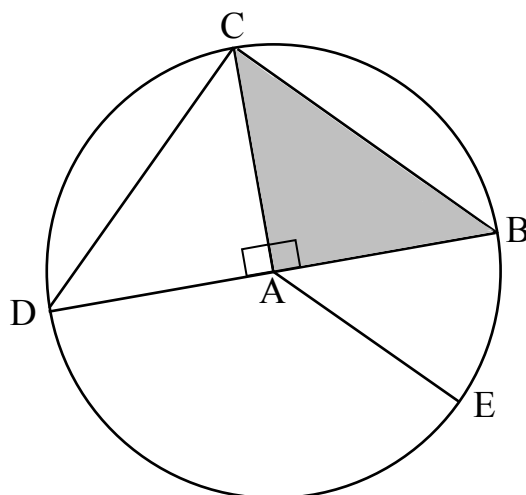


(a) The amount of water in the tank above is _____ L.

(b) After a  is immersed into water, the water level rises to 16 cm.

The volume of the  is _____ cm^3 .

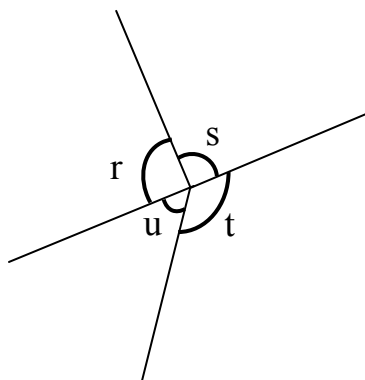
31.



In the above figure, AD and AE are radii of the circle.

- (a) Point _____ is the centre.
- (b) * AB / AC / BC / BD / CD is a diameter of the circle. (*Circle the answer)
- (c) The length of BD is 6 cm, and the area of the shaded part is _____ cm^2 .

32.



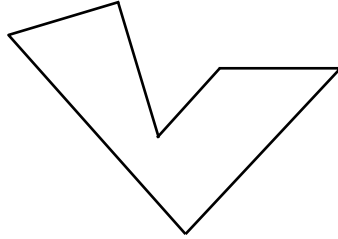
- (a) The right angle(s) shown in the figure above is/are * r / s / t / u . (*Circle the answer(s))
- (b) Arrange the three angles r, t and u from the largest to the smallest.

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

33. Study the 2-D figures below.

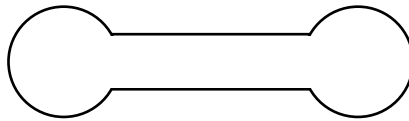
- (a) The figure below has * straight line(s) / curve(s) / parallel lines / perpendicular lines.

(*Circle all the answers)



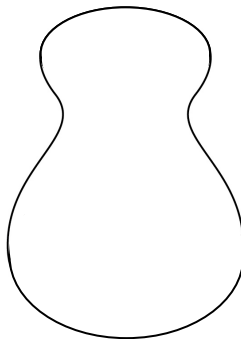
- (b) The figure below has * straight line(s) / curve(s) / parallel lines / perpendicular lines.

(*Circle all the answers)

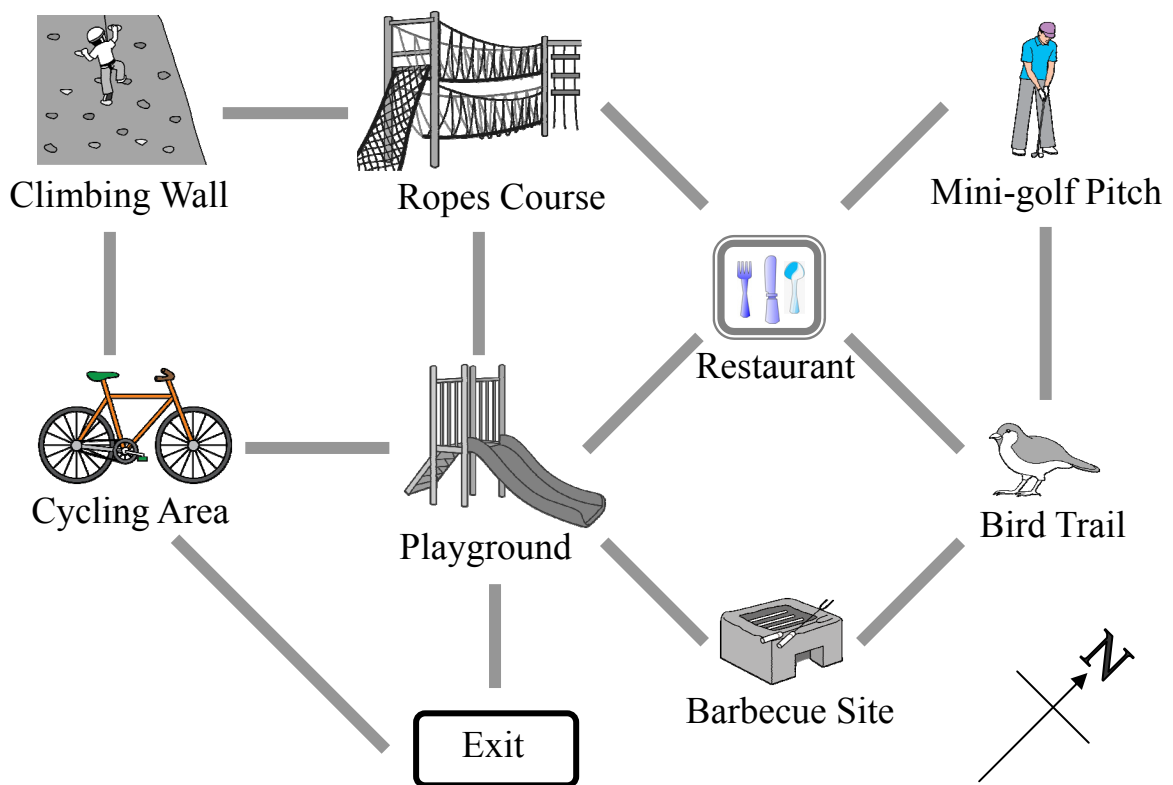


- (c) The figure below has * straight line(s) / curve(s) / parallel lines / perpendicular lines.

(*Circle the answer)



34. The following is the map of a recreation centre.



- (a) Ropes Course is to the _____ of Playground.
(direction)
- (b) Starting from Mini-golf Pitch, Mandy goes _____ to Bird Trail.
(direction)
- (c) Alan goes from Barbecue Site to Restaurant.
He goes west to _____ and then
turns _____ to reach Restaurant.
(direction)

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35. Johnson is M years old now. Danny's age is two times Johnson's age. What will Danny's age be after 10 years?

- ☐ A. $\frac{M}{2} + 10$
- ☐ B. $2M + 10$
- ☐ C. $(M + 10) \div 2$
- ☐ D. $(M + 10) \times 2$

36. $\frac{t}{2} - 1\frac{1}{4} = 2\frac{1}{4}$

$t =$

37. $6x + 4.7 = 18.5$

$x =$

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38. Michael, Karen and Jack shared a box of biscuits equally. After eating 6 biscuits, Karen had 14 biscuits left. By the method of solving an equation, find the original number of biscuits in the box.
(Show your working)

39. Mrs Chan bought a few cups of coffee. She bought 1 large cup, 5 regular cups and 1 small cup. How much did she pay for each cup of coffee on average?

Large cup	\$19.00 each
Regular cup	\$15.80 each
Small cup	\$14.00 each

(Show your working)

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40. The following table shows the sales of different types of pasta in Yummy Shop last week.

Types of pasta	Spaghetti	Lasagne	Macaroni	Penne
Number of bags sold	600	400	700	200

Construct a pictogram using the above data and give it a suitable title.

(Title)

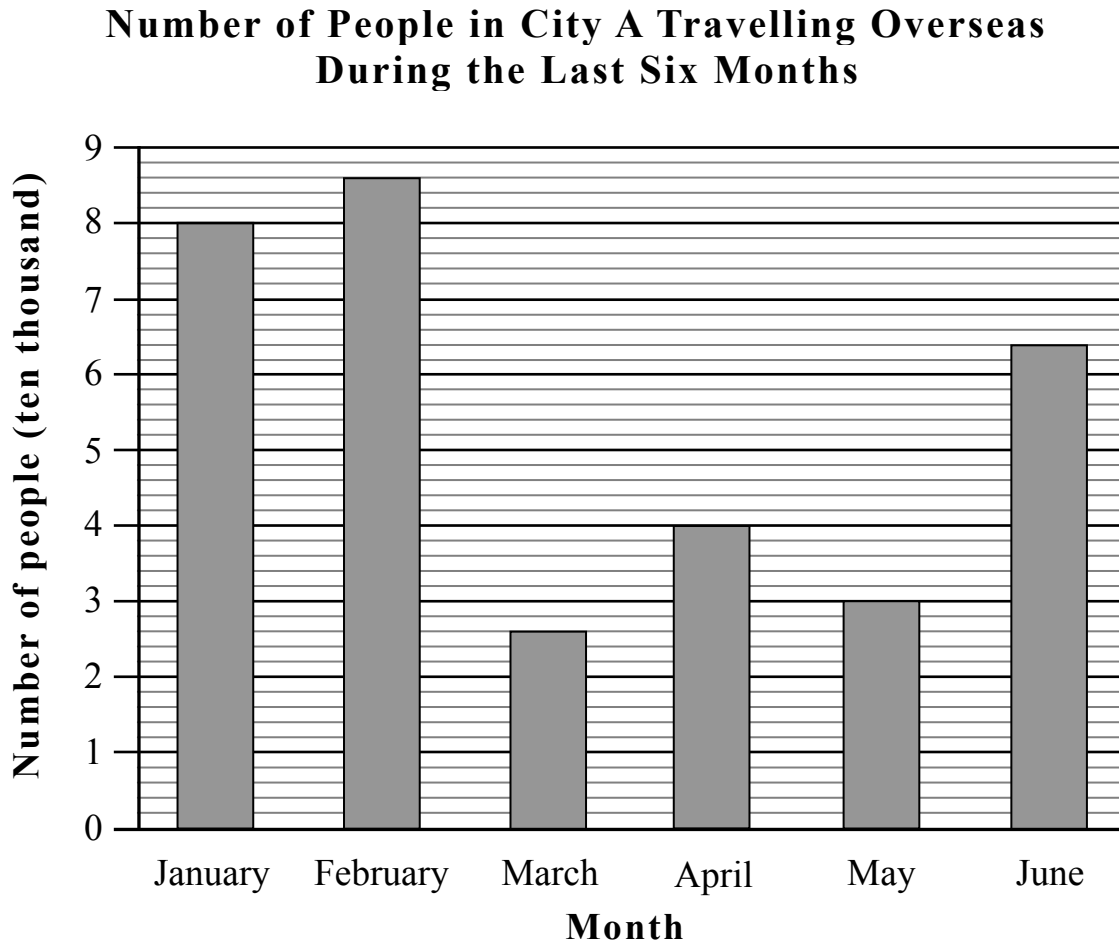
Each ○ stands for 100 bags



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41. The following bar chart shows the number of people in City A travelling overseas during the last six months.



Please do not write in the margin.

- (a) The month with the least number of people travelling overseas is _____ .
There are _____ people.
- (b) The number of people travelling overseas in May is _____ % of that in April.

— END OF PAPER —

