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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 39 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				**Class** 班別	6		**Class No.** 班號		

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

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1. Which of the following numbers has the digit '0' in its thousands place?

   ○ A. 12 340
   ○ B. 12 304
   ○ C. 12 034
   ○ D. 10 234

2. Which of the following numbers is a multiple of 15?

   ○ A. 5
   ○ B. 10
   ○ C. 35
   ○ D. 60

3. List all the factors of 44.

   Answer: _____

4. The Highest Common Factor (H.C.F.) of 18 and 48

   is _____ .

5. Fill in the box with the correct number.

$$\frac{\square}{7} = 1$$

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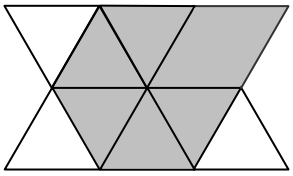
6. The first common multiple of 6 and 10 is 30.

Which of the following numbers is their third common multiple?

- ○ A. 45
- ○ B. 60
- ○ C. 75
- ○ D. 90

7. What fraction of the whole figure is shaded?



Answer: ☐ of the whole figure is shaded.

8. (a) Change $2\frac{3}{8}$ into an improper fraction.

Answer: $\square$

(b) Change $\frac{63}{5}$ into a mixed number.

Answer: $\square$

9. Which of the following fractions is the smallest?

$\frac{4}{11}$, $\frac{8}{11}$, $\frac{4}{15}$

Answer: $\square$

10. Change $\frac{5}{18}$ into a decimal correct to two decimal places.

Answer: $\square$

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11. In the number 1.396, which digit stands for the smallest value?

○ A. '9'
○ B. '6'
○ C. '3'
○ D. '1'

12. $10 \div 9 \times 90 =$ _____

13. $3\frac{1}{6} - \frac{2}{9} =$ ☐

14. $\frac{2}{5} \div 4 \times 1\frac{1}{9} =$ ☐

15. $36.4 + 3.6 - 8.45 =$ _____

16. $1.1 \times 5 \times 3.4 =$ _____

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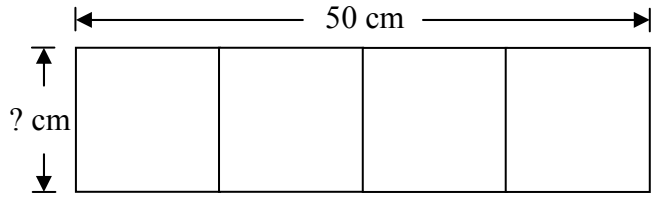
17. Yesterday, Mr Cheung spent $8\frac{1}{2}$ hours working, $\frac{3}{4}$ hour reading and $1\frac{1}{4}$ hours doing sport.

How many hours did he spend on these three activities altogether?

(Show your working)

18.



The rectangle above is made up of 4 square cards.

(a) The side of a square is _____ cm.

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

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19. A teacher bought 200 chocolates. Each chocolate weighs 2.5 g. She divides the chocolates equally into 10 packets. What is the weight of each packet? (Show your working)

20. (a) Change 160% into a decimal.

Answer: _____

(b) Change 3.2 into a percentage.

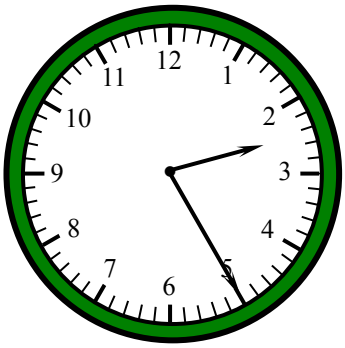
Answer: _____ %

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.

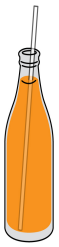
22.



(a) The clock in the hall showed the time when the guest started his speech. The time was _____ minutes * past/ to _____ in the afternoon.
(*Circle the answer)

(b) The guest finished his speech after 40 minutes. In 24-hour time, the time was _____ : _____ .

23. Fill in the following blanks with suitable units.



(a) The capacity of a soft drink bottle is about 500 _____ .

(b) A drinking straw is about 25 _____ long.

(c) A bottle of soft drink weighs about 600 _____ .

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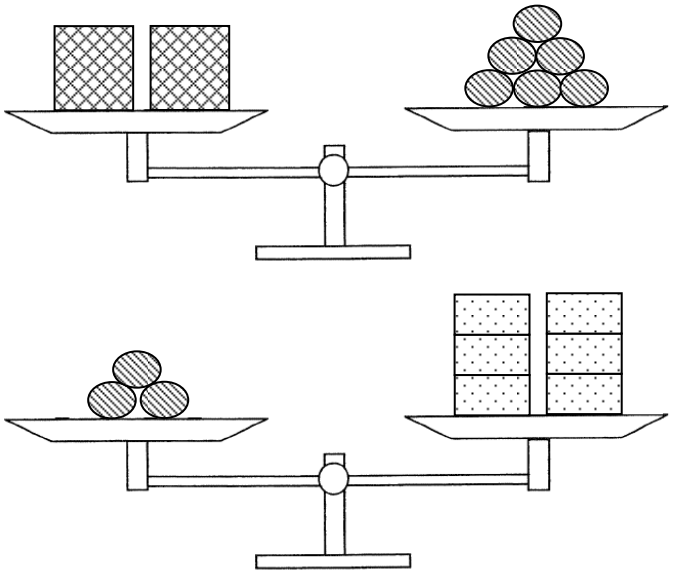
24.

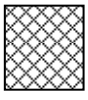


Study the diagrams above. Which of the following is correct?

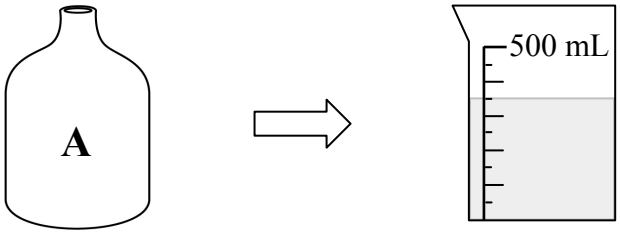
○ A. and weigh the same.

○ B. is heavier than .

○ C. is lighter than .

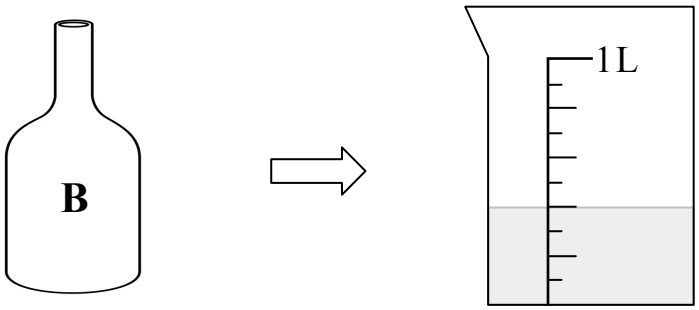
○ D. The weights of and  cannot be compared.

25. (a) Fill up Bottle A with water. Then pour all the water into a beaker.



The capacity of Bottle A is _____ mL.

(b) Fill up Bottle B with water. Then pour all the water into a beaker.



The capacity of Bottle B is _____ L.

(c) The capacity of Bottle A is

* larger than / equal to / smaller than

the capacity of Bottle B. (* Circle the answer)

26. A plastic tape is 440 cm long. How many plastic rings of diameter 7 cm can be made? (Take π as $\frac{22}{7}$)

Answer: _____ plastic rings can be made.

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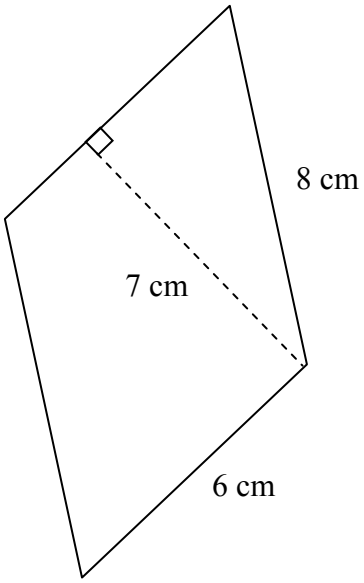
27.



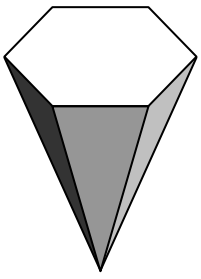
The figure above is a parallelogram.

Its area is _____ cm^2.

28. The average cycling speed of Polly is

about 15 _____ . (Write a suitable unit)

29.



The figure above is a hexagonal * pyramid / prism .
(* Circle the answer)

It has _____ edges.

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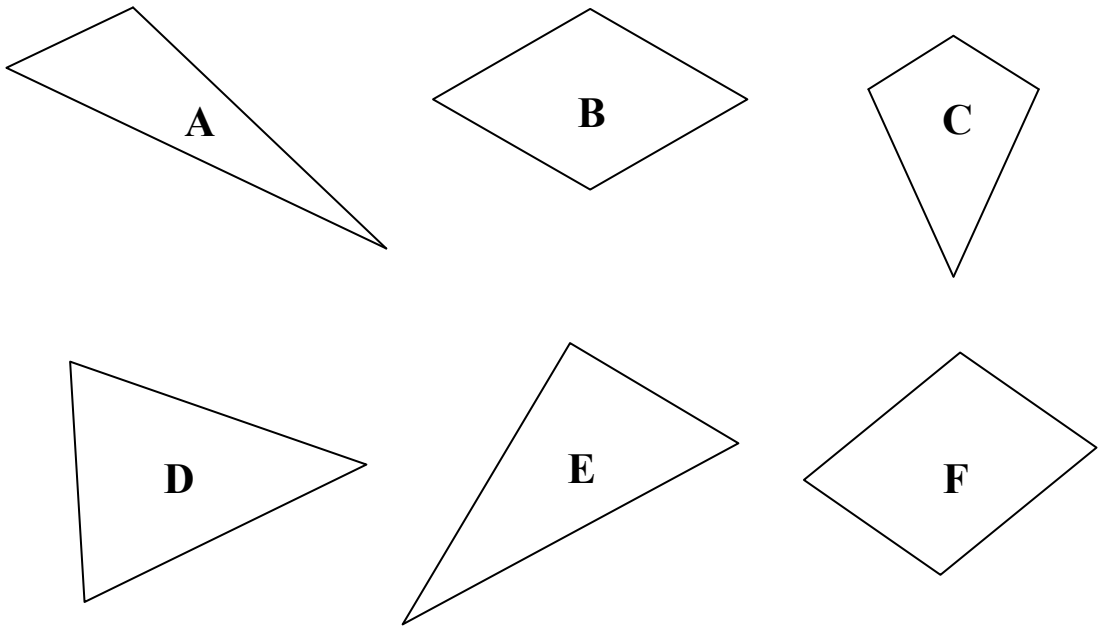
30.



(a) Which of the 2-D shapes above is a rhombus?

(Write the letter for the answer)

Answer: _____

(b) In the figure above, the triangle with two equal sides is _____ .

(Write the letter for the answer)

It is * an isosceles / a right-angled / an equilateral triangle.

(* Circle the answer)

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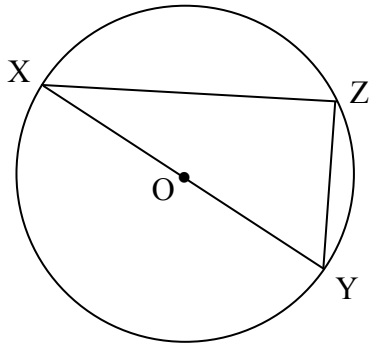
31. In the figure below, line XY is the diameter of the circle. OX and OY are lines of equal length.



(a) Point O is

- ○ A. a radius.
- ○ B. the centre.
- ○ C. a diameter.
- ○ D. the circumference.

(b) The three lines XY, YZ and ZX in the circle form

* an isosceles / a right-angled / an equilateral triangle.

(* Circle the answer)

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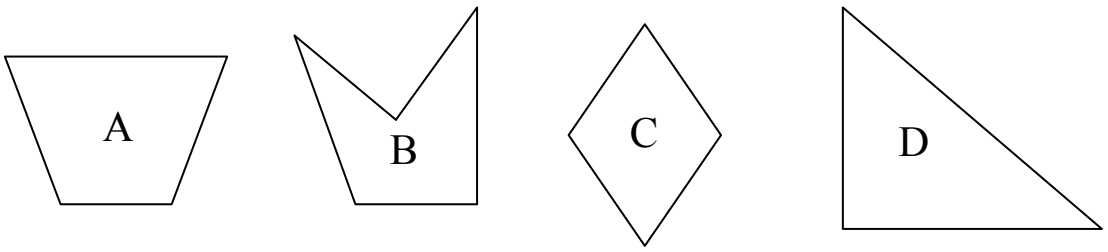
32. Study the following 2-D shapes. Write the letter(s) for the answer.



(a) Which of the 2-D shapes above has / have parallel lines?

Answer: _____

(b) Which of the 2-D shapes above has / have perpendicular lines?

Answer: _____

33. Which of the following stands for 'y is divided by 5 and then 2 is subtracted from the result'?

○ A. $\frac{y}{5} - 2$

○ B. $\frac{y - 2}{5}$

○ C. $\frac{y}{5 - 2}$

○ D. $\frac{5}{y} - 2$

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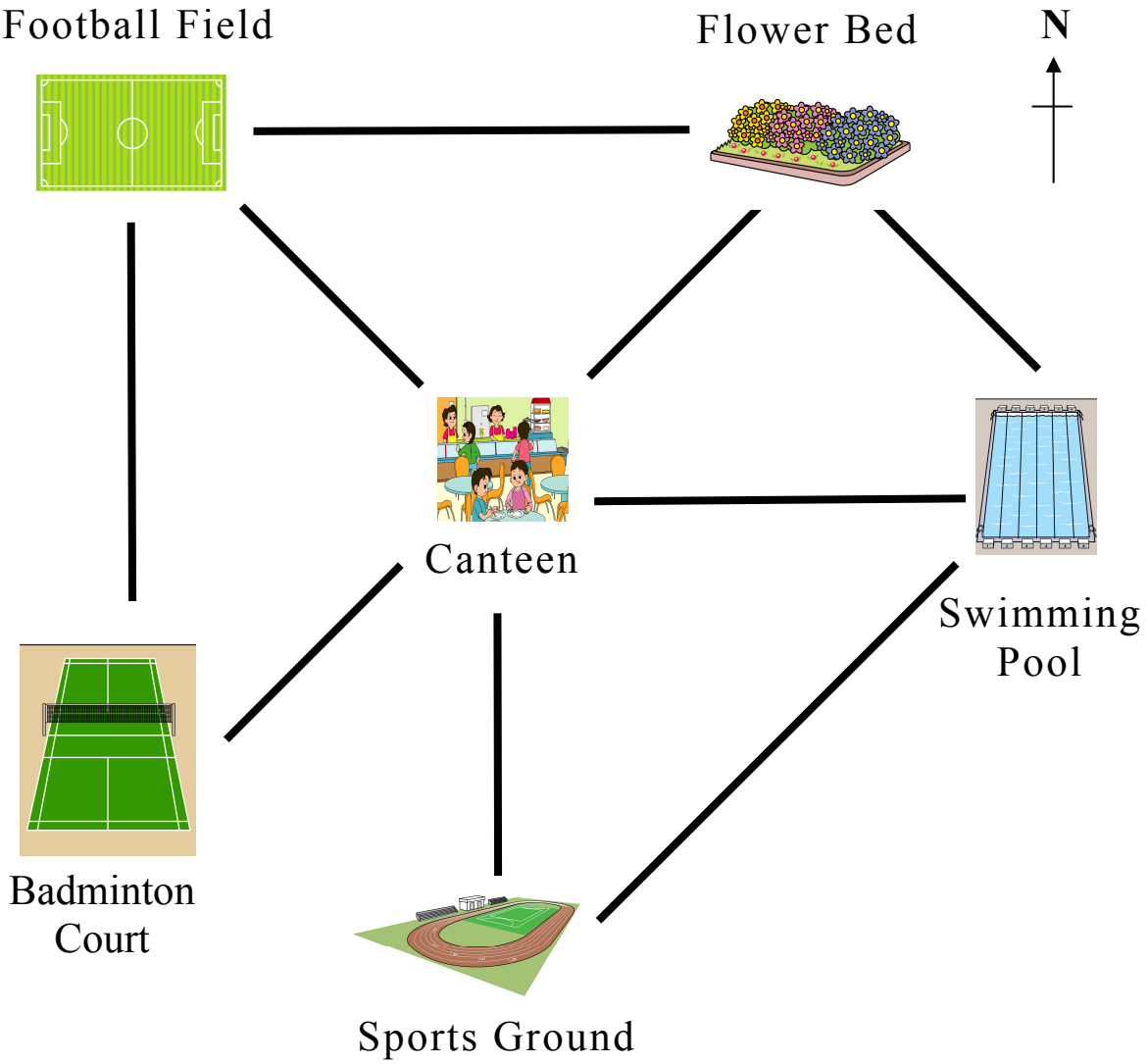
34. **Map of Sports City**



(a) Vivian goes _____ from Badminton Court to Football Field. Then she turns _____ to reach Flower Bed.
(direction) (direction)

(b) Canteen is to the south-west of _____ .

(c) After having a meal in Canteen, Bill goes _____ to Football Field.
(direction)

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35. $21\ y = 7$

$y =$ ☐

36.

1-Day Tour to Geology Park

Fee

Adult: $ 260 each

Child: [illegible] each

The fee of an adult is $40 more than that of 2 children. Find the fee of a child by the ***method of solving an equation***. (Show your working)

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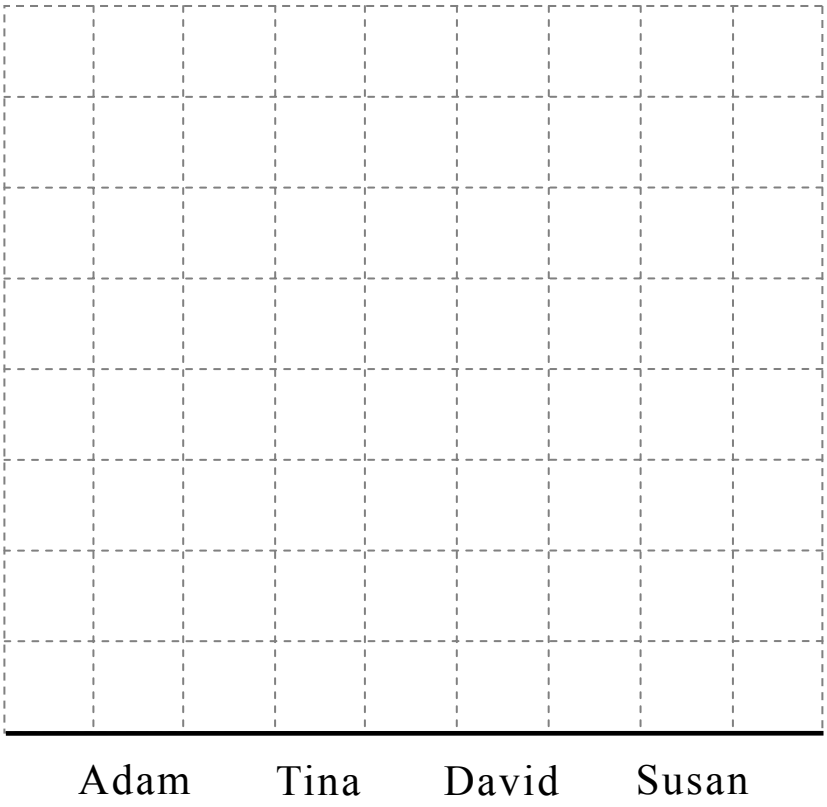
37. The points gained by four online game players are shown below.

Player	Adam	Tina	David	Susan
Points	600	400	300	100

According to the information in the table above, construct a pictogram and give it a title.

(Title)

Each ◯ stands for 100 points



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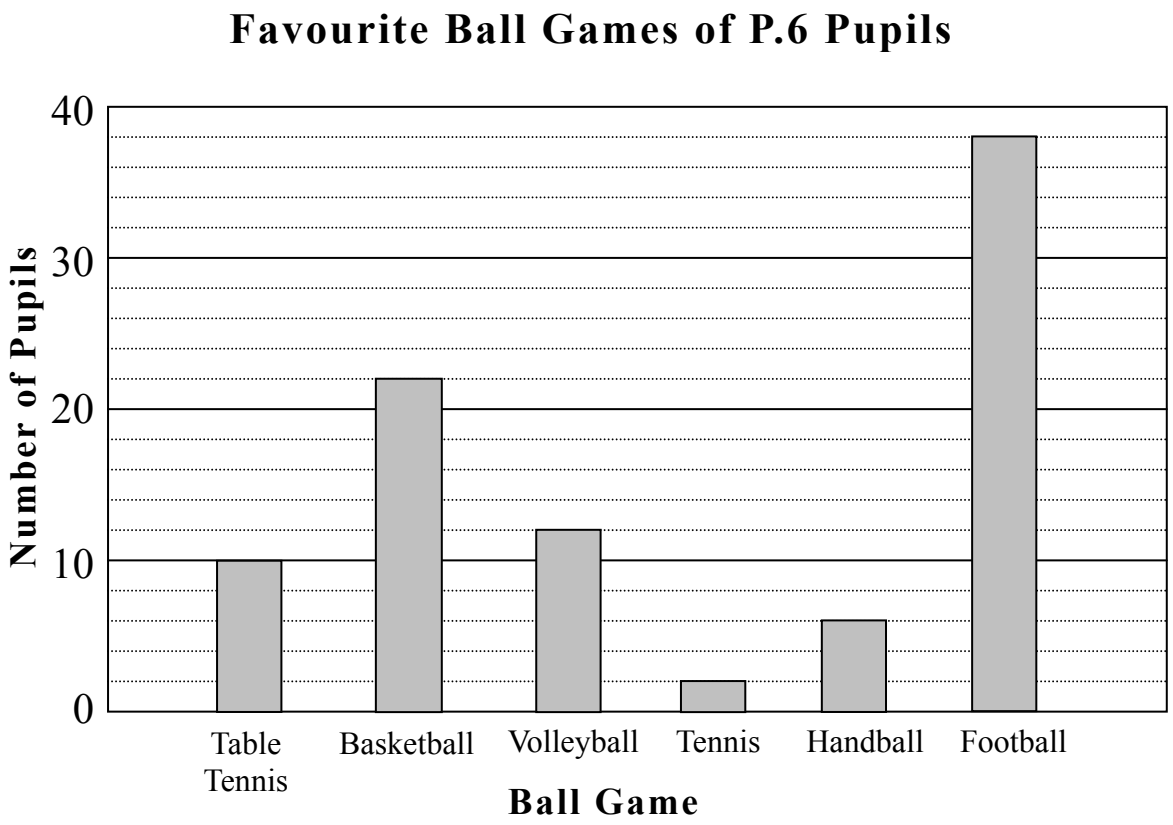
38. Mr Wong did a survey on the 'favourite ball games of P.6 pupils'. He drew the following bar chart according to the data.



(a) The most popular ball game of P.6 pupils is _____ .

(b) The total number of pupils taking part in this survey is _____ .

(c) The number of P.6 pupils who liked table tennis most is _____ * more / less than that of basketball. (* Circle the answer)

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39. Find the average of the five numbers below.

$$20 \quad , \quad 19.5 \quad , \quad 100 \quad , \quad 10\frac{1}{2} \quad , \quad 100$$

Answer: The average is _____ .

— END OF PAPER —

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2013-TSA-MATH-6ME1-20