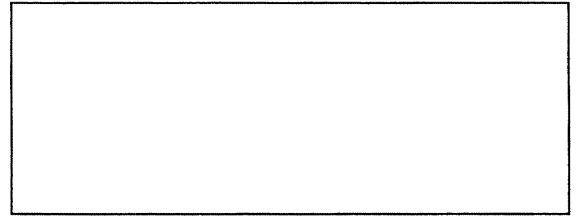


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Education Bureau Territory-wide System Assessment 2009 Primary 6 Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 45 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 margin.
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:

- (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/equations, 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

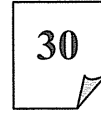
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↑
Write one capital letter in this box
此格只許填寫一個大楷英文字母

1. 9 is a common factor of

- A. 1 and 9.
- B. 2 and 18.
- C. 3 and 9.
- D. 18 and 36.

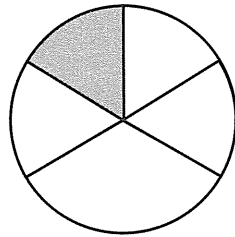
2. The class number of Ken is a common multiple of 5 and 6. Which of the following numbers is his class number? (circle the answer)



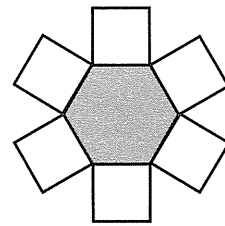
3. The Highest Common Factor (H.C.F.) of 24 and 32

is _____ .

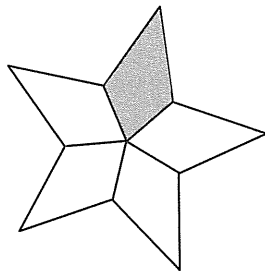
4. Which of the following figures is $\frac{1}{6}$ shaded?



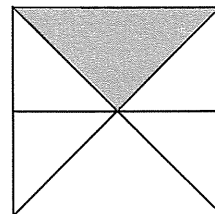
A.



B.

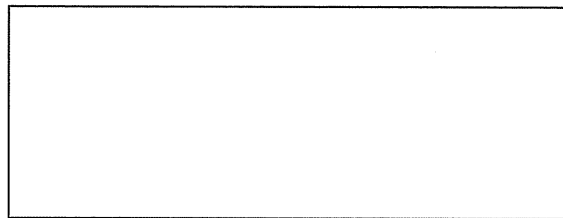


C.



D.

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5. Which of the following is correct?

- A. $\frac{3}{3} = 3$
- B. $\frac{3}{3} = 1$
- C. $\frac{1}{3} = 3$
- D. $\frac{1}{3} = 1$

6. (a) Change $3\frac{3}{5}$ into an improper fraction.

Answer:

(b) Change $\frac{55}{8}$ into a mixed number.

Answer:

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7. Compare the following fractions:

$$\frac{5}{12}, \frac{4}{9}, \frac{5}{9}$$

Answer: The smallest fraction is

8. In the number 2.315, which digit stands for the smallest value?

- A. '2'
- B. '3'
- C. '1'
- D. '5'

9. Change $2\frac{5}{9}$ into a decimal and correct the answer to two decimal places.

Answer: _____

10. $548 \times 33 =$ _____

11. $20 \div 7 \times 28 =$ _____

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12. $3\frac{3}{4} - 2\frac{3}{8} + \frac{1}{2} =$

13. $4\frac{1}{3} \div \frac{13}{21} =$

14. $1.5 \times (12.1 - 5.8) =$ _____

15. Jane has five boxes of books. There are 42 books in each box. She buys a bookcase with seven shelves to hold all the books. How many books on average does each shelf hold?

Answer: Each shelf holds _____ books on average.

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16. Fiona earns \$30 per hour. She works $6\frac{1}{4}$ hours each day. How much does she earn in six days?
(show your working)

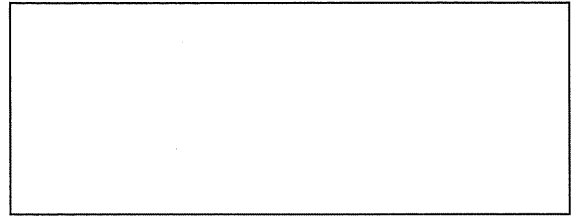
17.



A jogging trail is 2 km long. Mr Lee runs $3\frac{1}{4}$ km around the trail. He has run times around the trail.

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18. Estimate which of the following electrical appliances is the cheapest during the sale.

	<u>Electrical appliance</u>	<u>Original price</u>	<u>Discount</u>
<input type="radio"/> A.	Television	\$12 499.00	70% off
<input type="radio"/> B.	Air-conditioner	\$9 888.00	70% off
<input type="radio"/> C.	Refrigerator	\$7 168.00	50% off
<input type="radio"/> D.	Computer	\$9 988.00	50% off

19. The following is the price list for mailing postcards.

	<u>Postcard</u>
Local	\$1.40
Singapore	\$2.70
United Kingdom	\$3.00

Mandy is going to mail four postcards to Singapore and one postcard to the United Kingdom. How much should she pay? (show your working)


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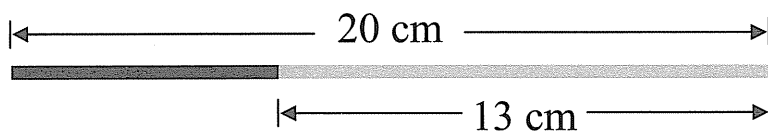
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20. A baker has 12 kg of flour and he buys 36 kg more today. If he uses 0.4 kg of flour to make a cake, how many cakes can he make with all the flour?

(show your working)



21.



A piece of string is 20 cm long. It has two parts, black and grey in colour. The grey part is 13 cm long. What percentage of the whole piece of string is grey?

Answer: _____ % of the whole piece of string is grey.

22. (a) Change 33% into a decimal.

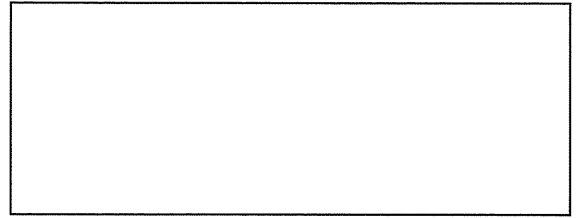
Answer: _____

- (b) Change 0.005 into a percentage.

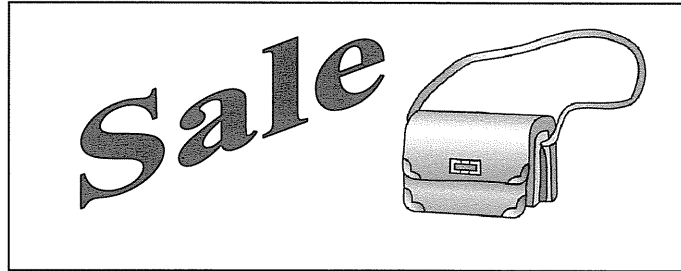
Answer: _____ %

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23.



The original price of a handbag was \$350. Mother bought the handbag at a special price of \$245. Express the special price as a percentage of the original price of the handbag.

Answer: The special price was _____ % of the original price of the handbag.

24. Fill in each blank below with a suitable unit of measurement.

(a) The Disneyland Resort Line is about 3.5 _____ long.

(b) The capacity of a teaspoon is about 5 _____ .

(c) A hamburger weighs about 150 _____ .

(d) The height of an adult is about 1.6 _____ .

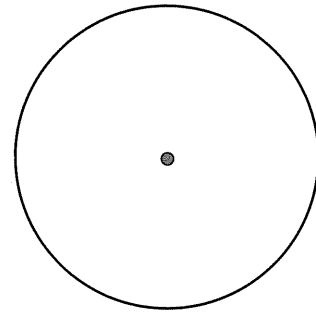
25. The diameter of a circle is 3 cm. Its circumference is about _____ cm. (give the answer as a whole number)

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Please do not write in the margin.

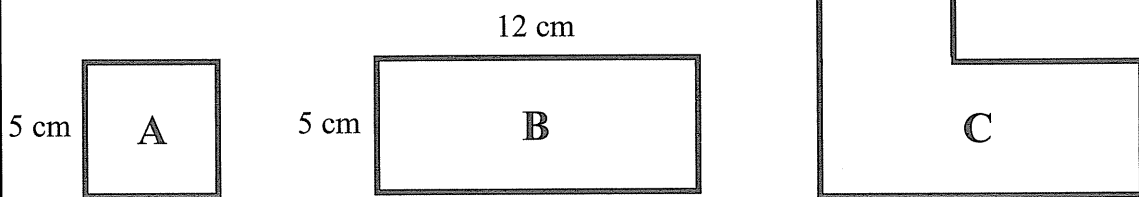
26. The diagram on the right is a circle and its centre.

Measure the length of the diameter with a ruler.



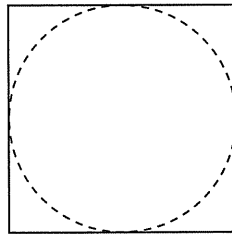
Answer: The length of the diameter is about _____ cm.

27.



- (a) The perimeter of Square A is _____ cm.
- (b) The perimeter of Rectangle B is _____ cm.
- (c) Figure C is made up of Square A and Rectangle B. Its perimeter is _____ cm.

28.



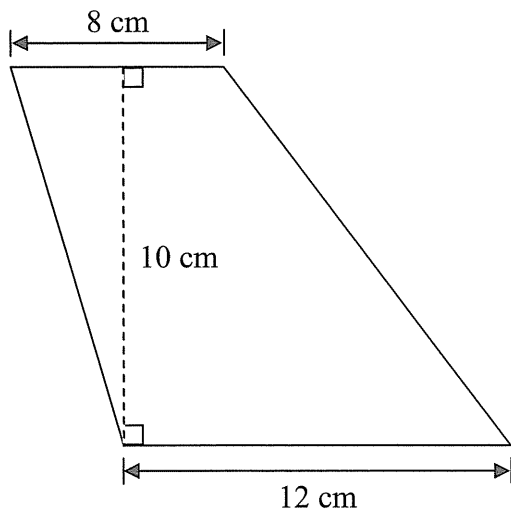
Tony cuts out the biggest circle from a square paper with side 8 cm. The circumference of the circle is _____ cm.

(take π as 3.14)

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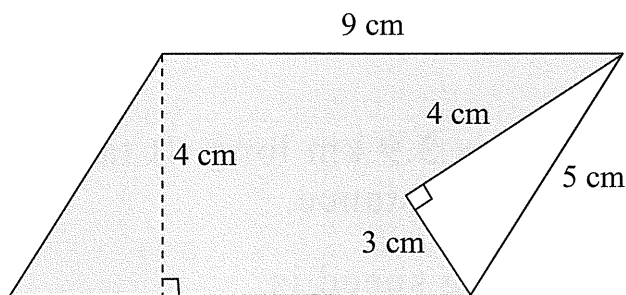
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29.



The area of the shape above is _____ cm^2 .

30.



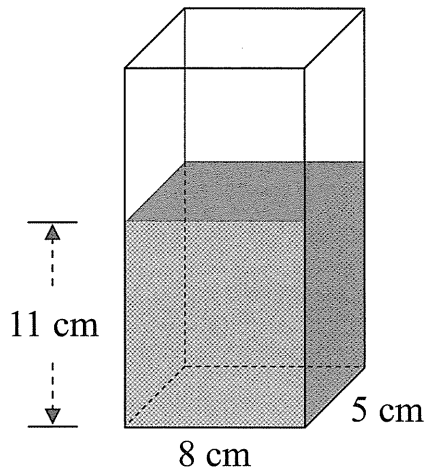
Find the area of the shaded part in the parallelogram above. (show your working)

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31.



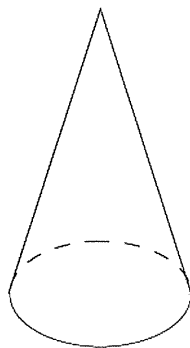
The water level in the cuboid is 11 cm high. After Nicole has dropped a piece of stone into the cuboid, the water level increases to 14 cm.

The volume of the stone is _____ cm^3 .

32. The jogging path is 3.9 km long. It takes Ken 30 minutes to cover the whole distance.

His average jogging speed is _____ m/s. (correct the answer to two decimal places)

33.



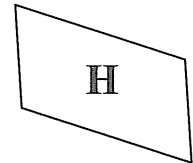
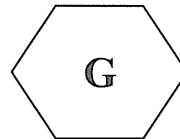
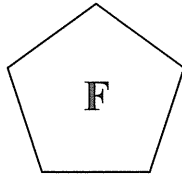
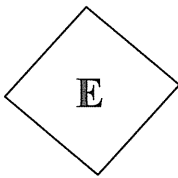
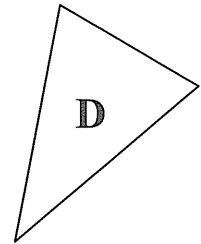
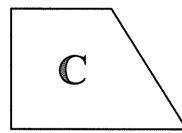
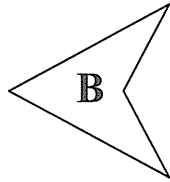
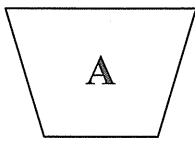
The solid above is a _____ .

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34. Which of the following quadrilaterals has four equal sides?

- A. Rectangle
- B. Rhombus
- C. Parallelogram
- D. Trapezium

35.



(a) Which of the shapes above is/are not quadrilateral(s)? Write the letter(s) for the answer.

Answer: _____

(b) Figure H has * one pair / two pairs (*circle the answer) of parallel opposite sides.

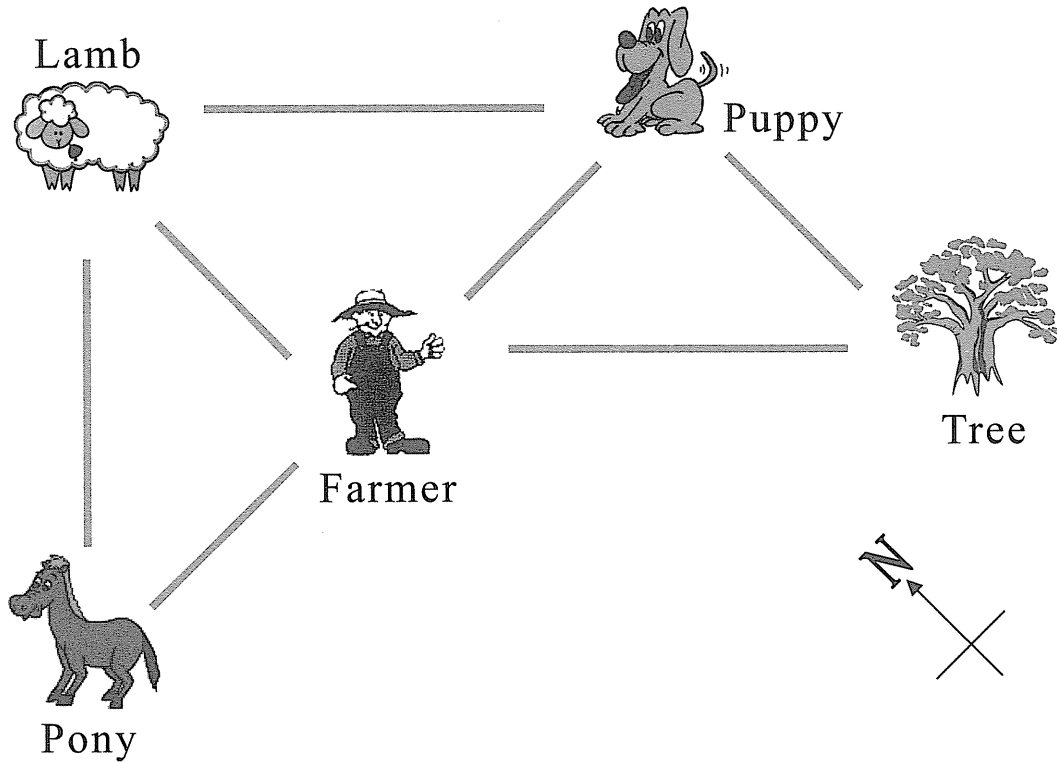
It is a _____ .

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Please do not write in the margin.

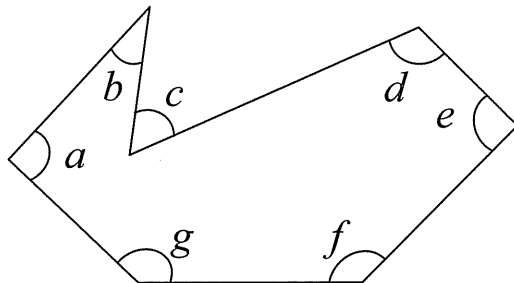
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36.



- (a) The Tree is to the _____ of the Puppy.
(direction)
- (b) The Farmer goes _____ to the Tree.
(direction)
- (c) The Pony is to the south-west of the _____ .

37. Study the diagram below. Write the letter(s) for the answer.



Which angle(s) is/are larger than angle e ?

Answer: _____

Please do not write in the margin.

41. $12.7 = 3B - 2.3$

$B =$

42. Mr Yip has bought 10 pieces of cake with three cash coupons and \$25. Each piece of cake costs \$4. Find the value of each cash coupon by the method of solving equation.


(show your working)

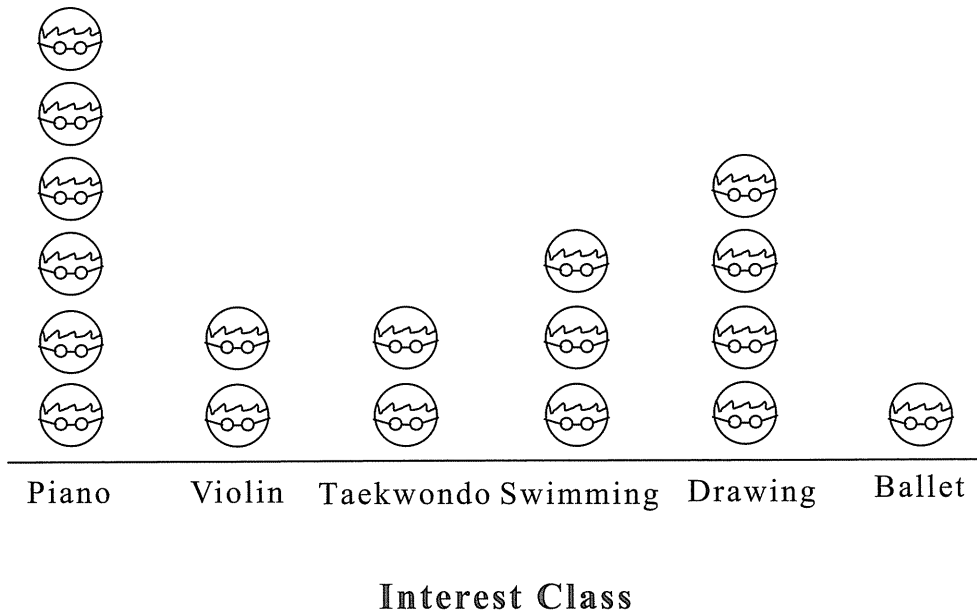
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43. The pictogram below shows the number of primary students joining interest classes in 2008.

**Number of Primary Students Joining
Interest Classes in 2008**

Each  represents 10 000 students



- (a) The total number of primary students joining interest classes in 2008 is _____ .
- (b) The most popular interest class is _____ Class.
- (c) The number of students joining _____ Class is three times that joining Ballet Class.
- (d) Express the number of students joining Taekwondo Class as a fraction of that joining Piano Class.

Answer: The fraction is .

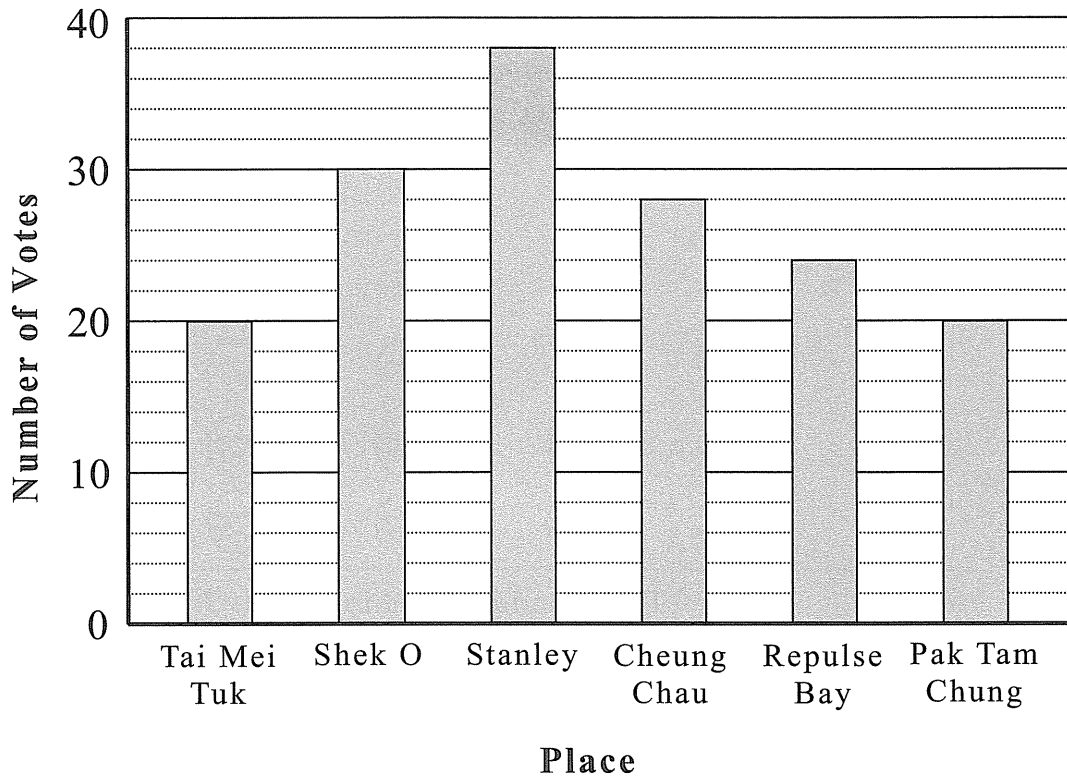
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44. Primary Six students voted for a place for a picnic. Each student voted for one place and the result was as follows:

Votes for Place for the Picnic of Primary Six Students



- (a) According to the voting result, the place for the picnic was _____.
- (b) The difference in the number of votes between Shek O and Stanley was _____.
- (c) Three students were absent on the day of voting. Would the place for the picnic be changed if the three votes had also been counted? Why?

Answer: * Yes / No (* circle the answer). This is

because _____

_____.

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Please do not write in the margin.

45. Find the average of the following four numbers.

12.4, 14.6, 0, 5

Answer: The average is _____ .

— END OF PAPER —

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