* 6 M E 3 *

6	M	E	3

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Please stick the barcode label in the box

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 48 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				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

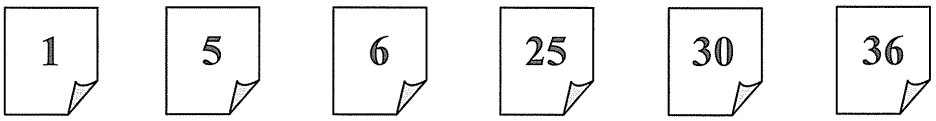
1. Write the number 10 054 in words.

   Answer: _____

2. 18 is a factor of

   - ○ A. 4.
   - ○ B. 6.
   - ○ C. 9.
   - ○ D. 18.

3. 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)



4. List all the common factors of 8 and 80.

   Answer: _____

5. The Highest Common Factor (H.C.F.) of 24 and 32 is _____ .

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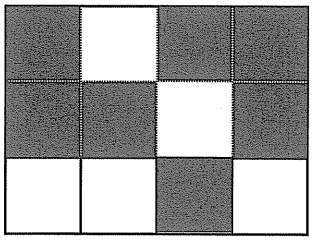
6. Use a pencil to shade the squares in the diagram below so that the shaded part is $\frac{2}{3}$ of the whole.



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

$$\frac{12}{32} = \frac{3}{\square} = \frac{\square}{96}$$

8. In the number 2.09, the digit '0' is in the _____ place.

9. Compare the following fractions:

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

Answer: The smallest fraction is ☐ .

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

Answer: _____

11. When 349 is divided by 17, the quotient is _____

and the remainder is _____ .

12. $3\frac{2}{5} + 1\frac{1}{8} =$ ☐

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

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

15. Calculate $2.6 \div 1.4$ and correct the answer to two decimal places.

Answer: _____

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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. Mr Yuen sponsored Polly for the Walk for a Million. Mr Yuen would donate \$25 for the first kilometre and \$12 for each kilometre from the second kilometre onwards.

Polly walked for 8 kilometres and Mr Yuen donated \$ _____ .

18. There were 5 680 electors in an estate. $\frac{3}{8}$ of the electors did not vote. How many electors of the estate had voted?

Answer: _____ electors of the estate had voted.

19. Mandy buys two \$1.40 stamps and five \$2.40 stamps at the Post Office. How much does she pay altogether?

Answer: She pays _____ . (give the answer with a suitable unit)

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 box of chocolates costs \$48.60. Lily has \$298 and she buys three boxes of chocolates. Which of the following expressions is most suitable for estimating the amount of money she has left?

- ○ A. $290 - 40 \times 3$
- ○ B. $290 - 50 \times 3$
- ○ C. $300 - 40 \times 3$
- ○ D. $300 - 50 \times 3$

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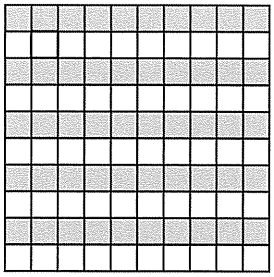
22. The shaded part of the following figure is _____ % of the whole.



23. (a) Change $1\frac{3}{4}$ into a percentage.

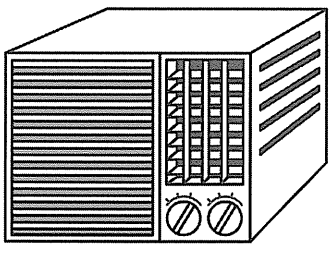
Answer: _____ %

(b) Change 12.5% into a fraction and reduce it to the simplest form.

Answer:

24. The original price of an air-conditioner is $3 650. It is sold at 20% off now.

Its selling price is $_____.



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25. Mr Cheung had savings of $8500 in a bank. He withdrew 15% of his savings from the bank. How much was left?

(show your working)

26.

2009 December						
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	30	31		

(a) Mary goes hiking on the third Sunday of December. That day is the _____ of _____ .
(month)

(b) Oscar has joined a 4-day wild camp. The camp will start on the last Tuesday of December and end on the _____ of _____ .
(month)

(c) The fifth day of January next year is _____ .
(day of the week)

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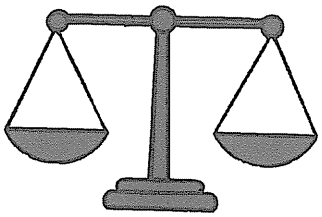
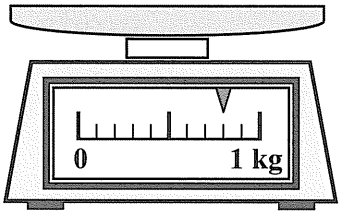
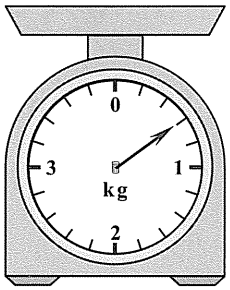
27. Which of the following tools is most suitable for measuring the weight of a primary student?



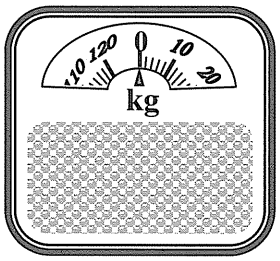
○ A.



○ B.

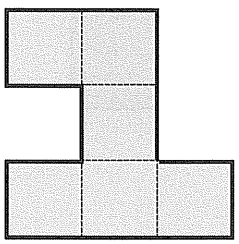


○ C.

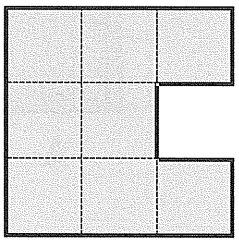


○ D.

28.



X



Y

Which of the following statements is correct?

○ A. The perimeters of X and Y are equal.

○ B. The perimeter of X is longer than that of Y.

○ C. The perimeter of Y is longer than that of X.

○ D. The perimeters of X and Y cannot be compared.

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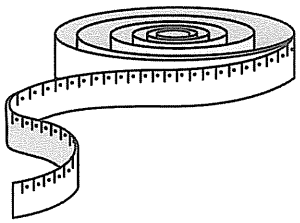
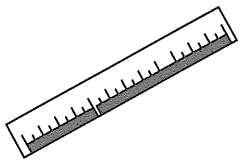
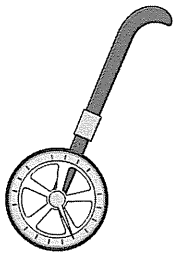
29. Which of the following tools is most suitable for measuring the length of a pair of trousers?



○ A. Measuring tape

○ B. Finger span

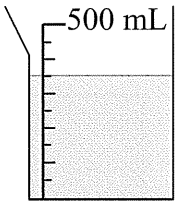




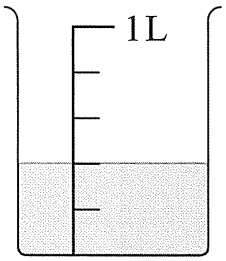
○ C. Centimetre rule

○ D. Trundle wheel

30.



A



B

(a) Beaker A contains _____ of juice.
(give the answer with a unit)

(b) Beaker A contains * more / less juice than that in Beaker B. (* circle the answer).

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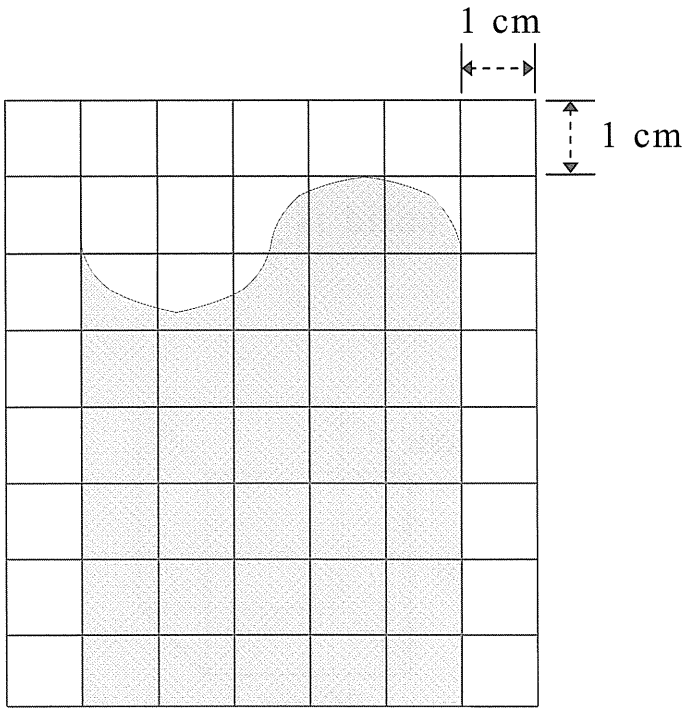
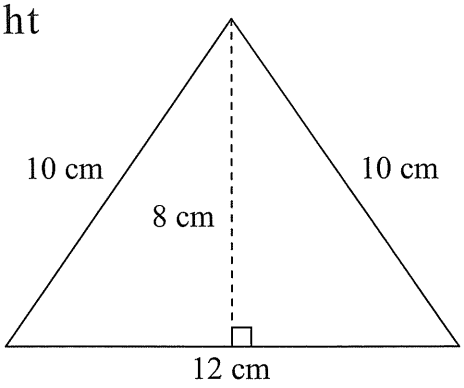
31. The circumference of a circular fountain is 44 m. Find its radius. (take π as $\frac{22}{7}$)

Answer: The radius of the fountain is _____ m.

32. In the diagram below, the side of each small square is 1 cm. The area of the shaded part is about _____. (give the answer with a unit)



33. The area of the triangle on the right is _____ cm^2.



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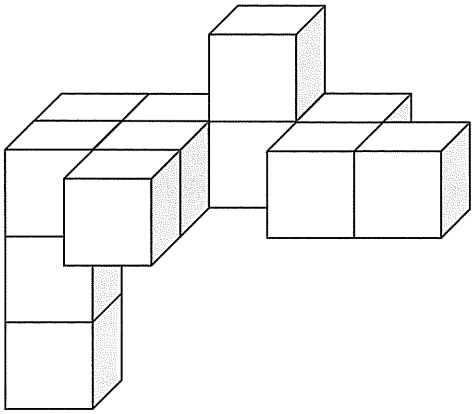
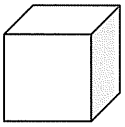
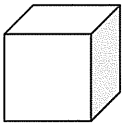
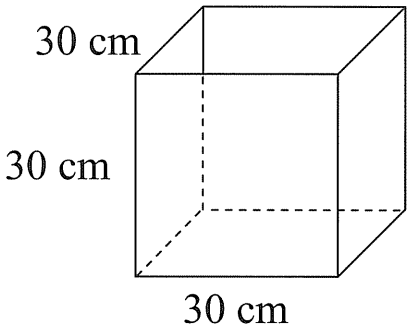
34.



The solid shown above is made up of  . The volume of each  is 4 cm^3.

The volume of the solid is _____ cm^3.

35.



The side of the cubical box above is 30 cm. Its capacity is _____ L.

36. The speed of cars in the city is usually 50 _____ .
(write a suitable unit)

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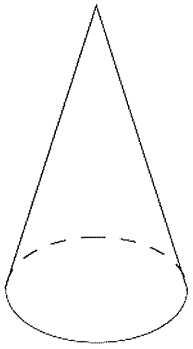
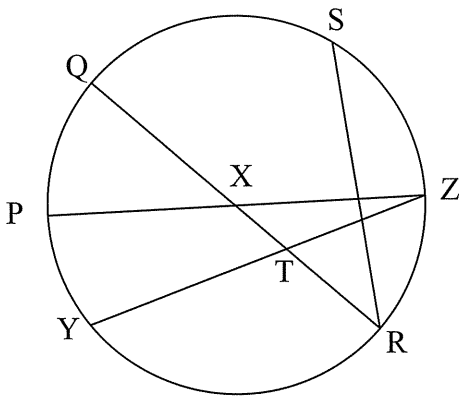
37. 

The solid above is a _____ .

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

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

39. In the diagram on the right, XR is a radius of the circle.



(a) The centre of the circle is point _____.

(b) In the diagram, * SR / QR / PX / YZ / PZ / YT is/are the diameter(s). (*circle all the answers)

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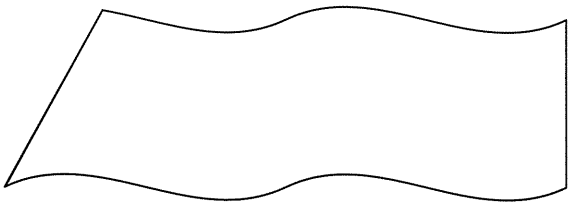
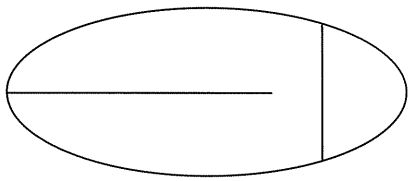
40. Study the 2-D figures below.

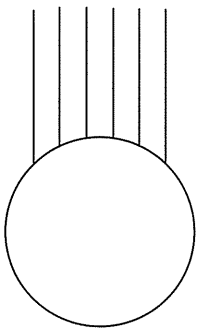
(a) The figure is made up of * straight lines / curves / parallel lines / perpendicular lines. (* circle all the answers)



(b) The figure is made up of * straight lines / curves / parallel lines / perpendicular lines. (* circle all the answers)



(c) The figure is made up of * straight lines / curves / parallel lines / perpendicular lines. (* circle all the answers)



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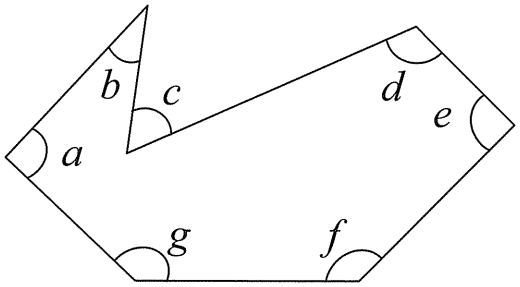
41. Study the diagram below. Write the letter(s) for the answer.



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

Answer: _____

42. Which of the following is an equation?

○ A. $\frac{24}{6} = 4$

○ B. $\frac{y}{10} \times 10$

○ C. $2r = \frac{2}{9}$

○ D. $18 \div 6 = 2 + 1$

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43. $X - 11 = 88$

$X =$ ☐

44. $25 = \frac{y}{10} + 11$

$y =$ ☐

45. Two times Daisy's weight is 2 kg greater than the weight of her father. Her father's weight is 74 kg. Find the weight of Daisy by **the method of solving equation**.

(show your working)

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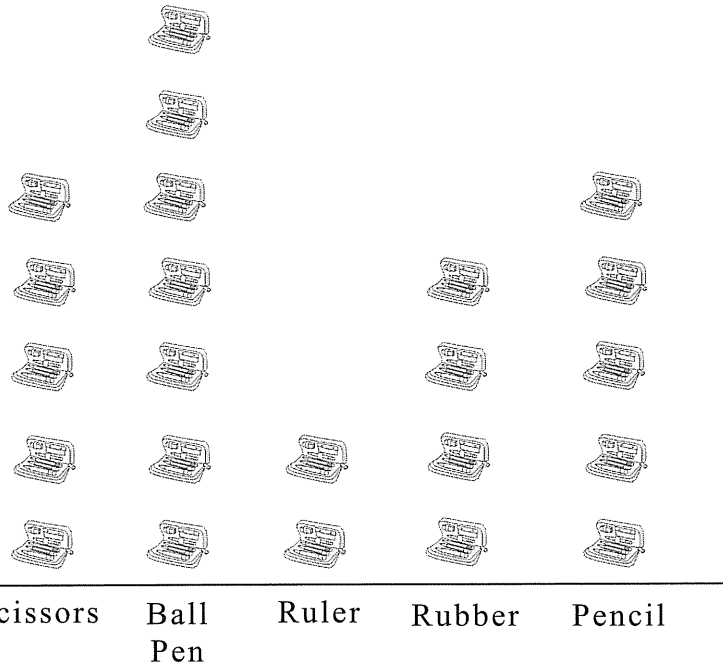
46. The following pictogram shows the sales of stationery at a shop last week.

Sales of Stationery at a Shop Last Week

Each represents 10 pieces



(a) The sales of stationery last week were _____ pieces.

(b) Express the sales of rulers as a fraction of the sales of rubbers.

Answer: The sales of rulers were ☐ of the sales of rubbers.

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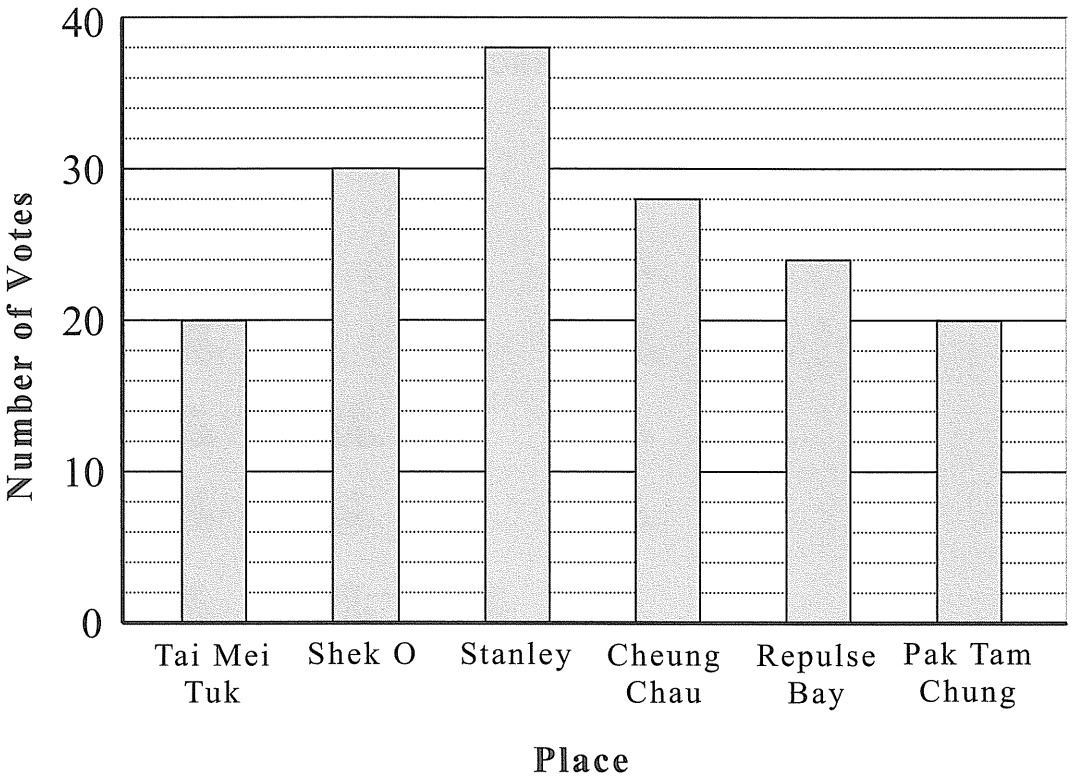
47. Primary Six students voted for a place for a picnic. Each student voted for one place and the result was as follows:

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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48. The following table shows the prices of three types of green tea in a supermarket.

Green Tea	Price
A	$17 each bottle
B	$15.50 each bottle
C	$25 for two bottles

If you buy two bottles of each type of green tea, what will be the average price of one bottle of green tea?

(show your working)

— END OF PAPER —

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