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Please stick the barcode label in the box

Education Bureau
Basic Competency Assessment Research Study 2017
Primary 3
Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 33 questions in this test. Answer all questions.
3. Time allowed is 40 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

P			
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Class
班別

3	
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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

1. In which of the following numbers is the digit '6' in the tens place?

- ☐ A. 18 246
- ☐ B. 28 461
- ☐ C. 48 612
- ☐ D. 68 124

2. In the number 93 715, the digit '3' stands for

* 3 / 30 / 300 / 3 000 / 30 000 .

(*Circle the answer)

3. Write 'twenty thousand and sixty-eight' in numerals.

Answer: _____

4. $58 + 198 =$ _____

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5. $824 - 129 =$ _____

6. $6 \times 415 =$ _____

7. $648 \div 3 =$ _____

8. $11 + 9 \times 6 =$

☐ A. 20

☐ B. 54

☐ C. 65

☐ D. 120

Please do not write in the margin.

9. Each pupil gets 5 pieces of drawing paper.

75 pupils get _____ pieces of drawing paper
altogether.

10. In Primary One to Primary Three, there are 329 pupils
altogether. There are 96 Primary One pupils and
107 Primary Two pupils. How many Primary Three
pupils are there?
(Show your working)

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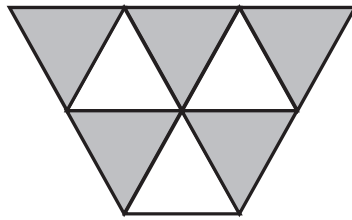
11. There are 140 buns in a bakery. The shopkeeper packs every 4 buns in one bag. How many bags can he pack altogether?

(Show your working)

Please do not write in the margin.



12. In the following figure, what fraction of the whole is shaded?



- ☐ A. $\frac{3}{8}$
- ☐ B. $\frac{3}{5}$
- ☐ C. $\frac{5}{8}$
- ☐ D. $\frac{5}{9}$

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Please do not write in the margin.

13. (a) $\frac{3}{3}$ is * smaller than / equal to / larger than $\frac{2}{2}$.

(*Circle the answer)

(b) Fill in the box with a suitable number.

$\frac{\square}{13}$ is larger than $\frac{6}{13}$.

14. Father buys a bottle of milk. Kitty drinks $\frac{5}{11}$ of

the whole, Charles drinks $\frac{2}{11}$ of the whole and

Linda drinks $\frac{4}{11}$ of the whole.

Who drinks the least milk?

Answer: * Kitty / Charles / Linda drinks

the least milk.

(*Circle the answer)

Please do not write in the margin.

15.



(a) A  costs

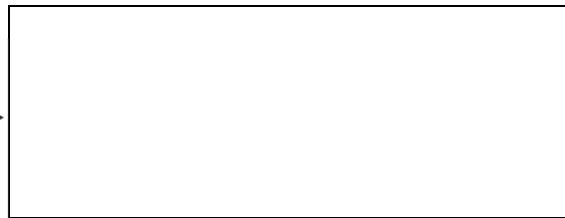
_____ dollars and _____ cents.

(b) Ryan buys a  .

Circle the amount he should pay.



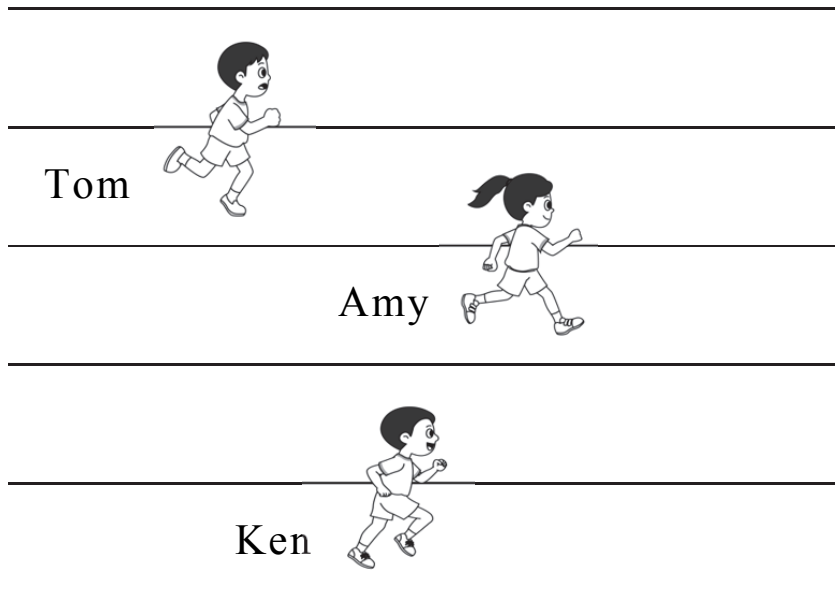
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Please do not write in the margin.

16.



**Finishing
line**

Tom, Amy and Ken are taking part in a 100-metre race.

In the above figure,

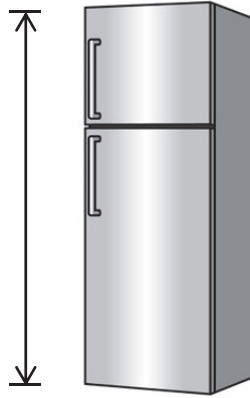
* Tom / Amy / Ken is nearest to the finishing line. (*Circle the answer)

17. Fill in the following blanks with suitable units.

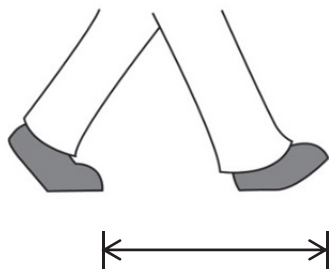
(a) A toothbrush  is about 16 _____ long.

(b) An apple  weighs about 200 _____.

18.



Which of the following is most suitable for measuring the height of a refrigerator?



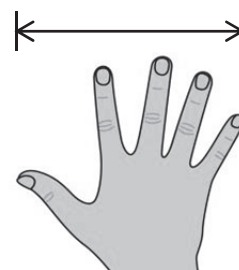
☐ A.



☐ B.



☐ C.



☐ D.

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Please do not write in the margin.

Please do not write in the margin.

19. Answer the following questions according to the calendar for May below.

May						
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			

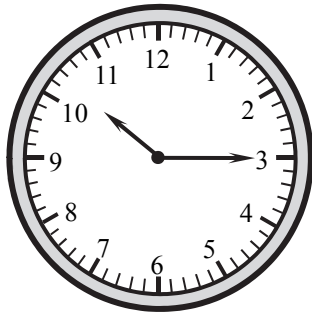
- (a) The second Sunday of May is Mother's Day.

That day is the _____ of _____ .
(month)

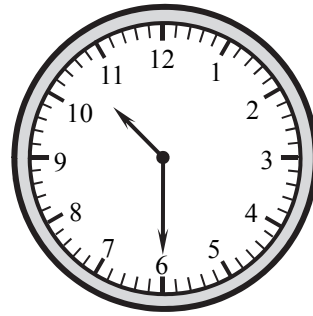
- (b) The last day of May is _____ .
(day of the week)

Please do not write in the margin.

20. The two clocks below show the starting time and the finishing time of a quiz.



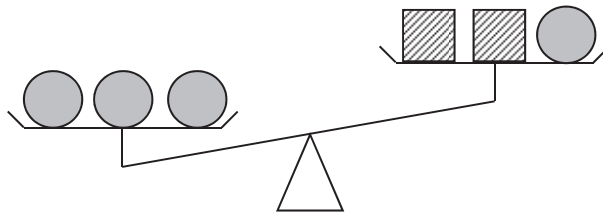
Starting Time



Finishing Time

- (a) The quiz starts at _____ minute(s) past _____ in the morning.
- (b) The time is 10:25 a.m. now. The quiz has _____ minute(s) left.

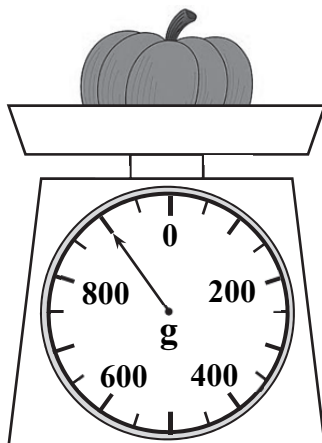
21.



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

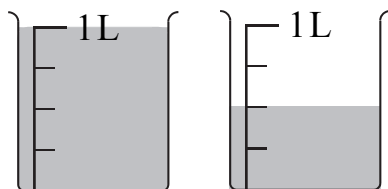
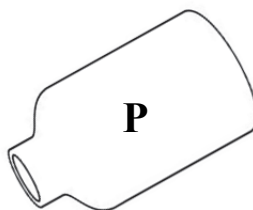
- ☐ A.  and  weigh the same.
- ☐ B.  is lighter than .
- ☐ C.  is lighter than .
- ☐ D. The weights of  and  cannot be compared.

22.



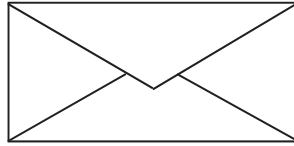
The weight of  is _____ grams.

23. Fill up container **P** with water. Then pour all the water into two empty measuring cups.

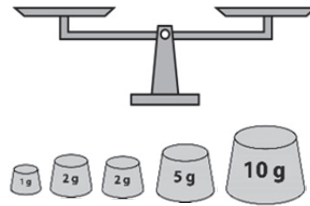


The capacity of container **P** is _____ mL.

24.



Which of the following is most suitable for measuring the length of an envelope?


☐ A.

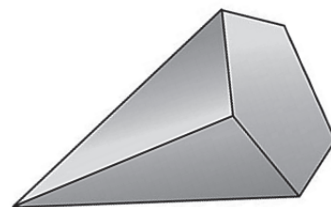
☐ B.

☐ C.

☐ D.

25. The 3-D shape on the right is a

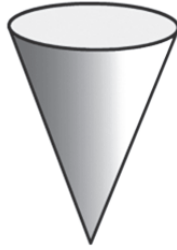
- ☐ A. pentagon.
- ☐ B. prism.
- ☐ C. cone.
- ☐ D. pyramid.



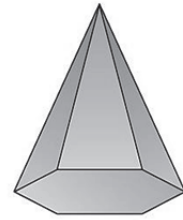
26. Follow the instruction. Write down all the letters for the answers.



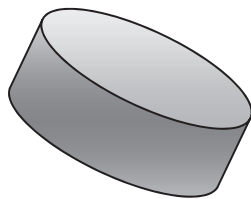
A.



B.



C.



D.



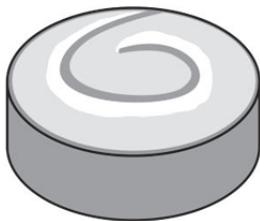
E.

List:

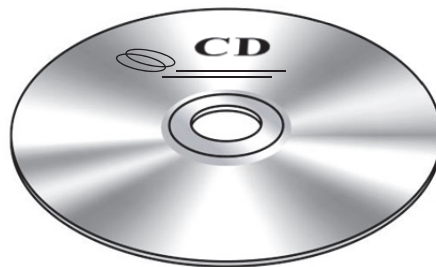
(a) Cylinder(s): _____

(b) Sphere(s): _____

27.



Roll cake



Compact disc

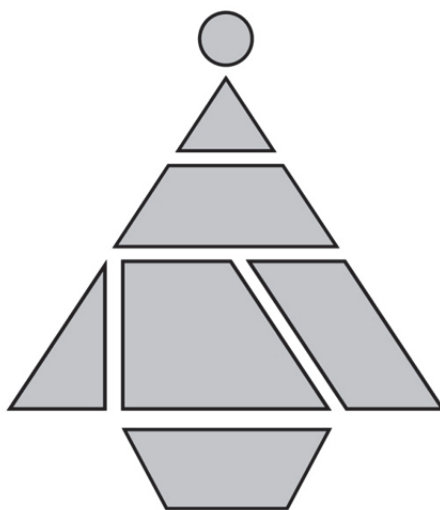


10-dollar coin

Study the figures above. Which object is the thinnest?

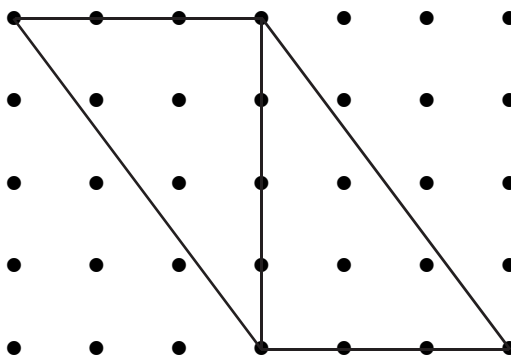
Answer: * Roll cake / Compact disc / 10-dollar coin
is the thinnest. (*Circle the answer)

28. Lucy uses different 2-D shapes to form a picture.



- (a) There is / are _____ parallelogram(s) in the picture above.
- (b) There is / are _____ trapezium(s) in the picture above.

29.



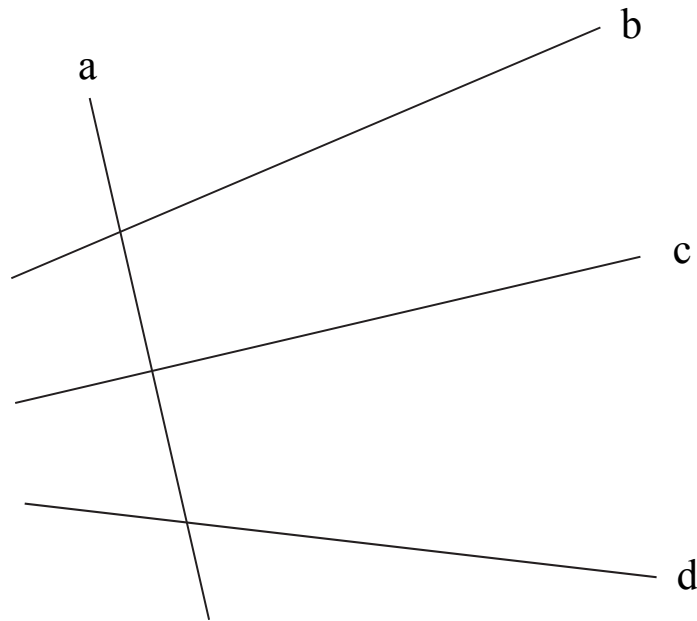
On the pin-board, Tony uses rubber bands to make two

* right-angled / isosceles / equilateral triangles.

(*Circle the answer)

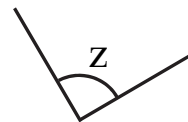
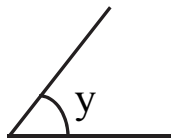
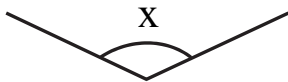
Please do not write in the margin.

30. Study the following figure. Write down the letters for the answers.



Lines _____ and _____ are a pair of perpendicular lines.

31.



Study the diagram above. Arrange the angles x, y and z from the largest to the smallest.

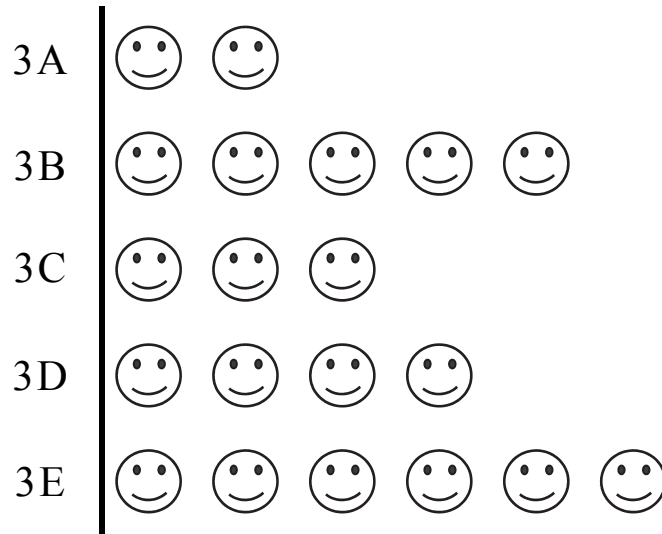
Answer: _____ , _____ , _____
(Largest) (Smallest)

Please do not write in the margin.

32. Mr Hui did a survey of the number of pupils in each Primary Three class using the computer room yesterday.

**Number of Pupils in Each Primary Three Class
Using the Computer Room Yesterday**

Each ☺ stands for 1 pupil



- (a) The number of pupils in Class _____ using the computer room yesterday was the least. There were only _____ pupils.
- (b) The total number of Primary Three pupils using the computer room yesterday was _____ .

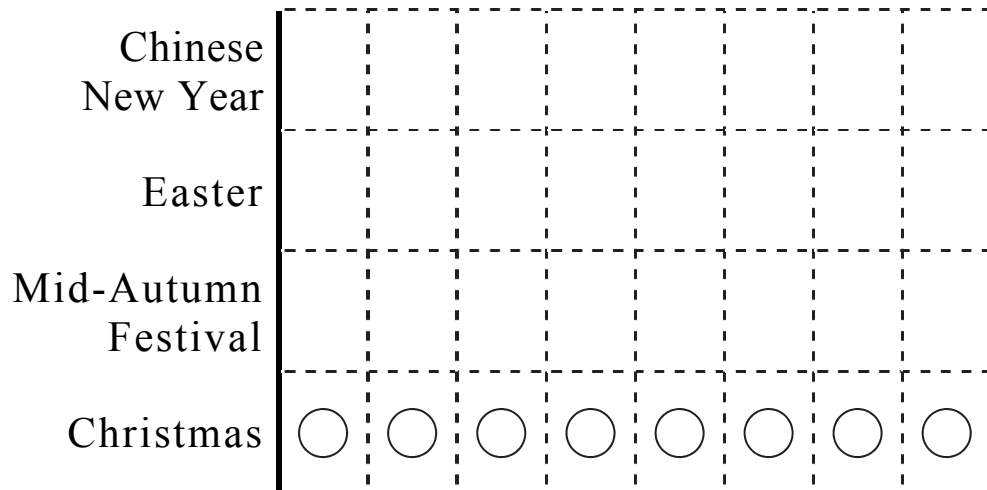
33. The pupils of P.3B voted for their favourite festivals with one person, one vote. The results are as follows:

Festival	Chinese New Year	Easter	Mid-Autumn Festival	Christmas
Number of pupils	6	3	4	8

According to the results, complete the following pictogram and give it a title.

(Title)

Each ○ stands for 1 pupil



— END OF PAPER —

