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Please stick the barcode label in the box

Education Bureau
Territory-wide System Assessment 2015
Primary 6
Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 40 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

1. Which of the following groups of numbers are common factors of 22 and 33?

- ☐ A. 1, 2, 3
☐ B. 1, 11
☐ C. 2, 3, 11
☐ D. 66, 132

2. The Least Common Multiple (L.C.M.) of 4 and 46 is _____ .

3. Fill in the boxes with the correct numbers.

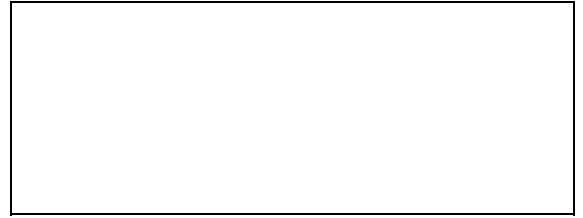
(a)
$$\frac{9}{54} = \frac{3}{\boxed{}}$$

(b)
$$\frac{8}{24} = \frac{\boxed{}}{144}$$

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

$$3\frac{5}{8} \quad , \quad \frac{27}{8} \quad , \quad \frac{29}{7}$$

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Please do not write in the margin.

5. Change $3\frac{2}{7}$ into a decimal correct to two decimal places.

Answer: _____

6. In the number 1.862, the digit '8' is
in the _____ place.

7. When 680 is divided by 15, the quotient is _____
and the remainder is _____.

8. $0.75 + 4.08 - 2.81 =$ _____

9. $602 \times 50 =$

- ☐ A. 3 010
- ☐ B. 30 010
- ☐ C. 30 100
- ☐ D. 300 100

Please do not write in the margin.



10. $3\frac{1}{5} + \frac{3}{4} =$

11. $\frac{2}{7} \div 3 \times 2\frac{5}{8} =$

12. Calculate $1.85 \div 1.2$.

Round the answer to two decimal places.

Answer: _____

13. $1.5 \times (8.8 + 11.2) =$ _____

14. There are 242 pupils in Primary Six. $\frac{6}{11}$ of them are girls.

There are _____ boys in Primary Six.

15. Fill in the box with the correct number.

$$\frac{\boxed{}}{14} = 7$$

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16. Fanny has bought 5 packs of candies.

Each pack weighs 50.2 grams.

She has bought _____ grams of candies.

17. Charles made a phone call to Hong Kong for 4.8 minutes from overseas. He should pay \$50.80 .

Which of the following expressions is most suitable for estimating the fee (in dollars) per minute on average?

- ☐ A. $50 \div 4$
- ☐ B. $50 \div 5$
- ☐ C. $60 \div 4$
- ☐ D. $60 \div 5$

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Please do not write in the margin.

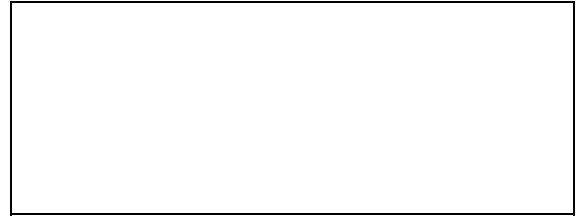
18. Goods at a sports shop are on sale. The original price of a ball was \$150. The price is \$135 now.

The ball will be sold at _____ % of its original price.

19. The original amount of Heidi's stored value card was \$150.00 . She bought 5 birthday cards with her stored value card. Each birthday card cost \$22.50 . What was the remaining amount of her stored value card?
(Show your working)

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20. (a) Change $\frac{3}{16}$ into a percentage.

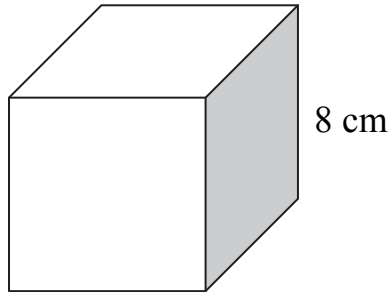
Answer: _____ %

(b) Change 155% into a fraction and reduce it to the simplest form.

Answer:



21.

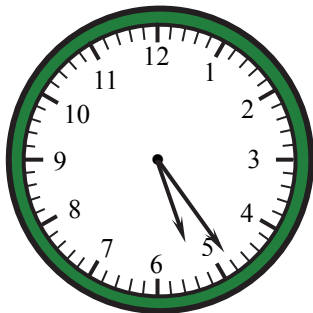


The cube above has _____ edges.

Its volume is _____ cm^3 .

Please do not write in the margin.

22.



- (a) The clock above shows the time Jenny arrived at the cinema.

The time was _____ minutes past _____
in the afternoon.

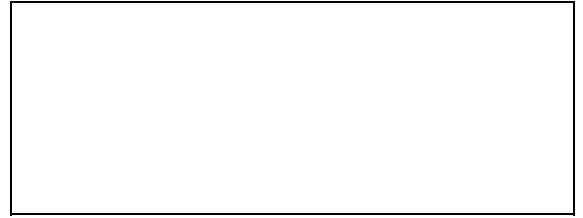
- (b) The film started at



In '24-hour time', the time
was _____ : _____ .

- (c) Jenny arrived at the cinema _____ minutes
* earlier / later than the time the film started.
(*Circle the answer)

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23. Fill in the following blanks with suitable units.

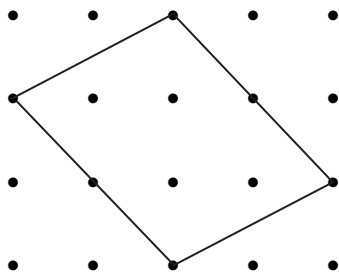
(a) A carrot is about 20 _____ long.

(b) The weight of a dumbbell is
5 _____ .

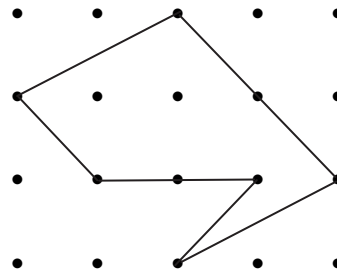


(c) The capacity of a teapot is about
1 _____ .

24.



X



Y

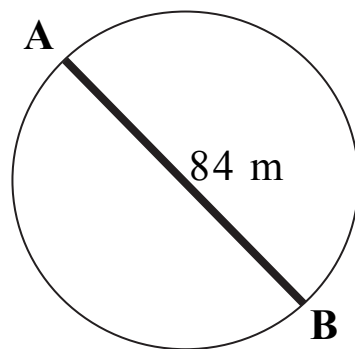
Study the diagrams above. Which of the following statements is correct?

- ☐ A. The perimeter of **X** is longer than that of **Y**.
- ☐ B. The perimeters of **X** and **Y** are the same.
- ☐ C. The perimeter of **X** is shorter than that of **Y**.
- ☐ D. The perimeters of **X** and **Y** cannot be compared.

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Please do not write in the margin.

25.

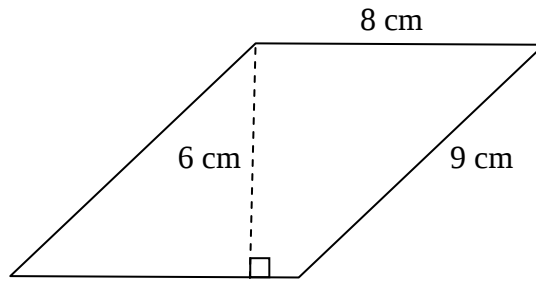


The diagram above shows a circular lawn. A path of 84 m long joins points **A** and **B**. **AB** is a diameter.

- (a) Polly runs along the path to cross the lawn in 10.5 s. What is her average speed?
(Show your working)

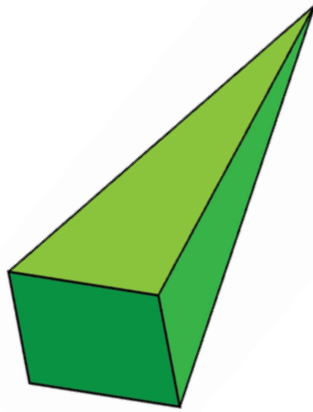
- (b) The circumference of the lawn is _____ m.
(Take π as $\frac{22}{7}$)

26.



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

27.



The figure above is a * pyramid / prism .

(*Circle the answer)

It has _____ vertices.

28. Which of the following tools is most suitable for measuring the capacity of a spoon?



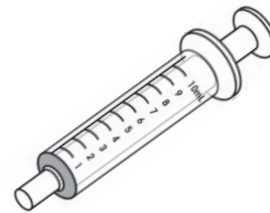
☐ A.



☐ B.

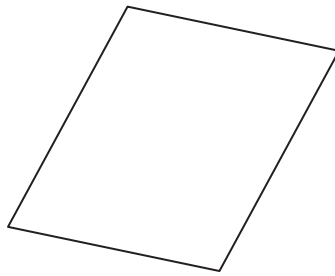


☐ C.



☐ D.

29.



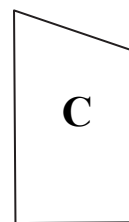
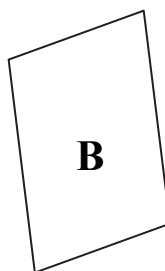
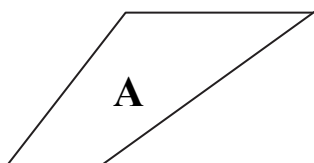
The 2-D shape above is a

* parallelogram / rectangle / rhombus .

(*Circle the answer)

It has _____ pair(s) of opposite sides parallel.

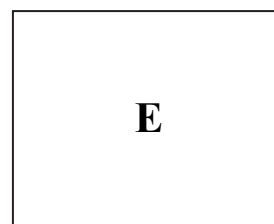
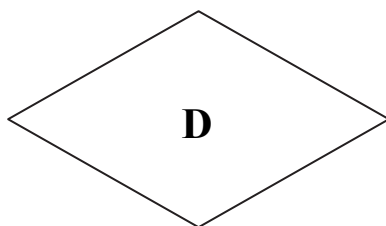
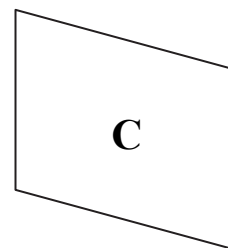
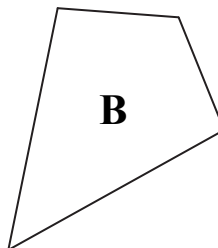
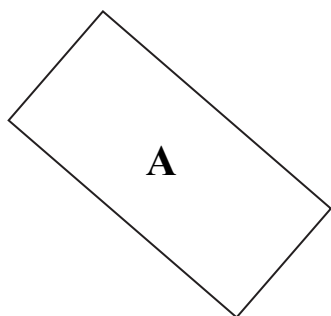
30. Study the following 2-D shapes. Write the letter(s) for the answer.



Parallelogram: _____

Trapezium: _____

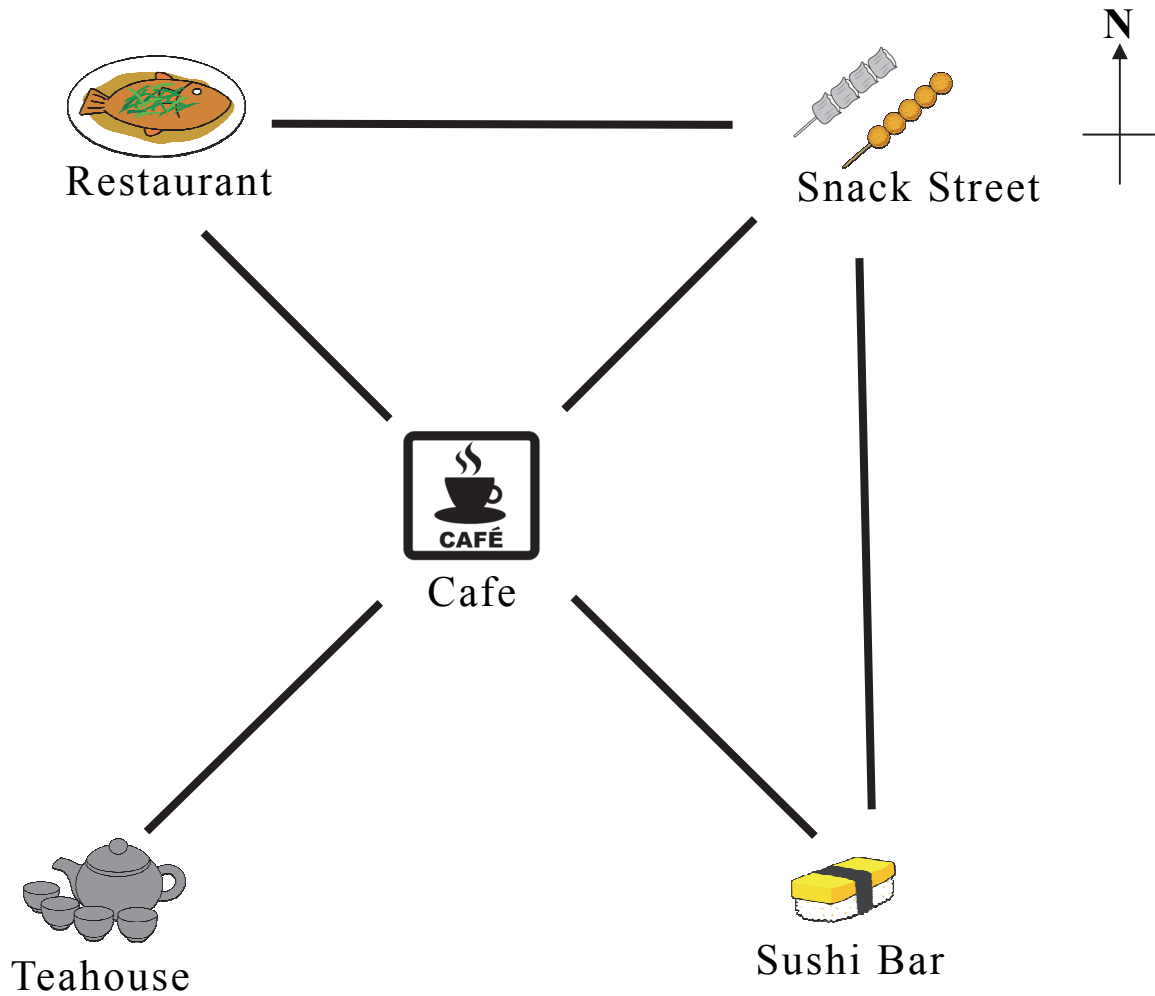
31. Study the 2-D shapes below. Write the letter(s) for the answer.



(a) Rectangle: _____

(b) Rhombus: _____

32. The map of Food Court is shown below.



(a) Starting from Restaurant, Peter goes _____
(direction)

to reach Snack Street. Then he turns _____
(direction)

to reach Cafe.

(b) Cafe is to the north-east of _____ .

(c) Sushi Bar is to the _____ of Restaurant.
(direction)

Please do not write in the margin.

Please do not write in the margin.

33. Which of the following stands for '10 minus m is divided by 4'?

- ☐ A. $10 - m \div 4$
- ☐ B. $m - 10 \div 4$
- ☐ C. $(10 - m) \div 4$
- ☐ D. $(m - 10) \div 4$

34. Which of the following is an equation?

- ☐ A. $2A - 6 = 10$
- ☐ B. $20 \times 9 = 180$
- ☐ C. $(6 - y) \times 8$
- ☐ D. $14 = 70 \div 5$

35. $\frac{P}{4} + 10 = 11$

$P =$

36. $6.5 + 7y = 8.6$

$y =$

37.



Sushi: \$5 each piece



Ice-cream cone: \$15 each

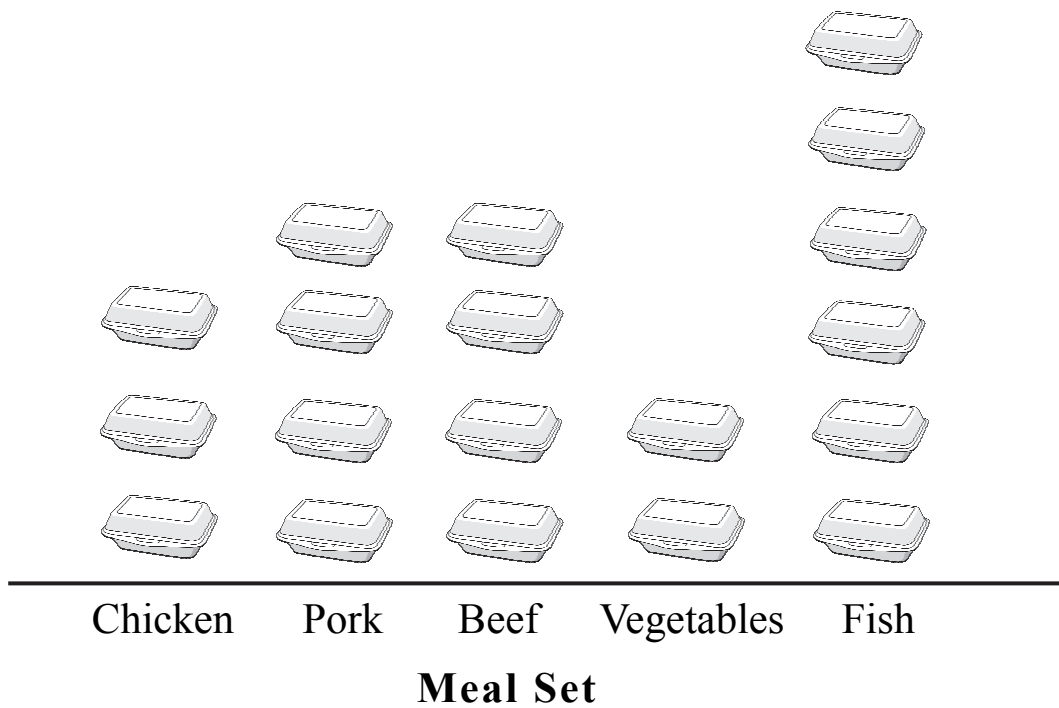
Andy bought some sushi and an ice-cream cone for 60 dollars. Find the number of pieces of sushi he bought by *the method of solving an equation*. (Show your working)

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38. The following diagram shows the sales of take-away meal sets of Yummy Kitchen last week.

**Sales of Take-away Meal Sets
of Yummy Kitchen Last Week**

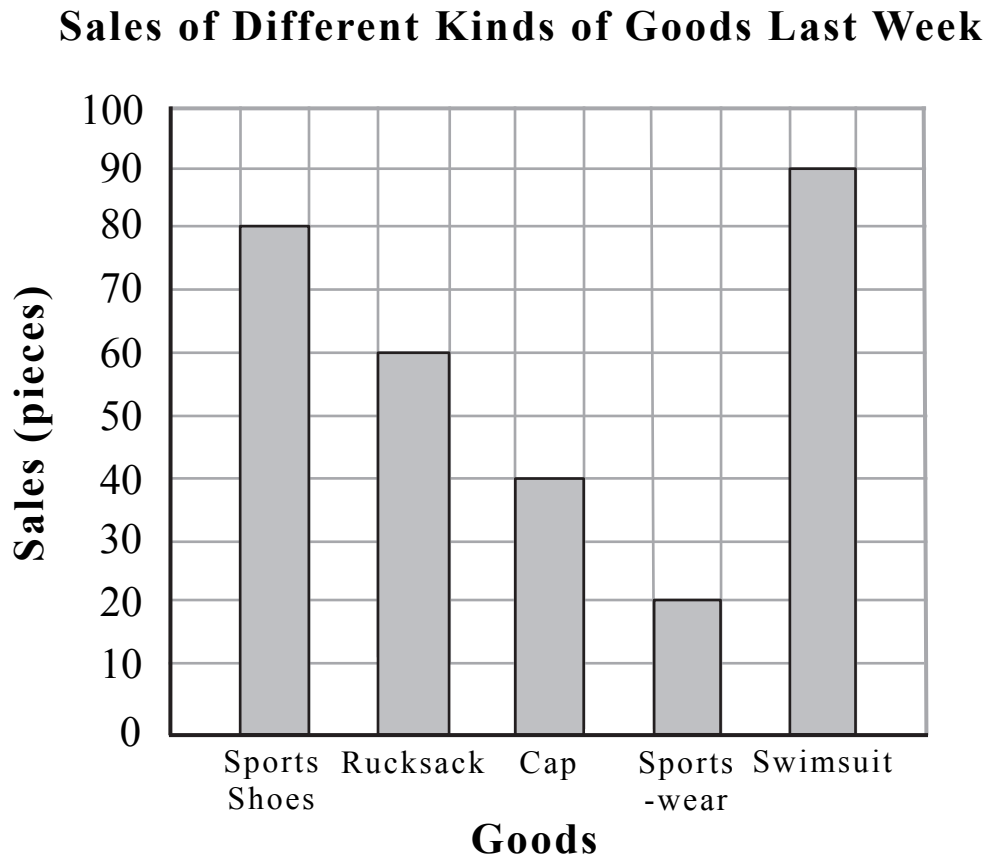
Each  stands for 100 meal sets



- (a) The sales of _____ meal sets were the least last week.
- (b) A total of _____ meal sets were sold last week.
- (c) The sales of chicken meal sets were _____ % of the sales of fish meal sets.

Please do not write in the margin.

39. A sports shop conducted a survey on the sales of different kinds of goods last week. The result is shown in the following bar chart.



- (a) The sales of _____ were the most.
_____ pieces were sold.
- (b) The sales of rucksacks were _____ times
the sales of sportswear.
- (c) The sales of caps were _____ pieces
* more / less than the sales of swimsuits.
(*Circle the answer)

Please do not write in the margin.

40. Mary handed in 4 assignments of Visual Arts in the first term. She got the following marks:

6 , 7 , 8 , 10

3 assignments of the highest marks will be counted for the result.

Her average mark is _____ .

(Give the answer correct to 1 decimal place)

— END OF PAPER —

Please do not write in the margin.

