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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 41 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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↑
Write one **capital letter** in this box
此格只許填寫一個大楷英文字母

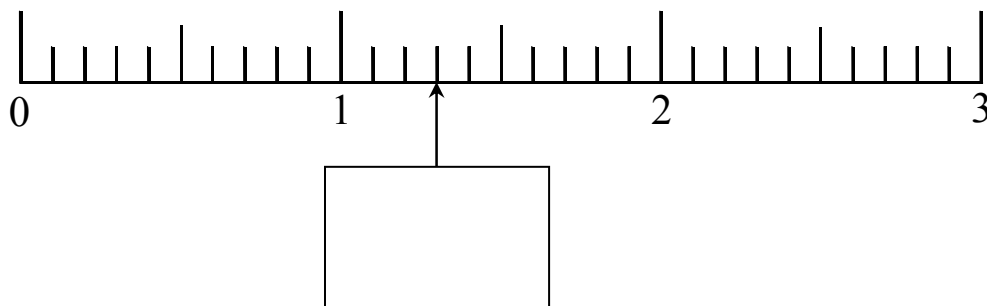
Please do not write in the margin.

1. In the number 70 468, the digit '7' is
in the _____ place.
2. Which of the following numbers is a common factor of 6 and 15?

☐ A. 3
☐ B. 6
☐ C. 15
☐ D. 30
3. Fill in the box with the correct number.

$$\frac{17}{29} = \frac{51}{\boxed{}}$$

4. Express the mark pointed at by the arrow as a decimal.
Write the answer in the box.



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Please do not write in the margin.

5. Change 0.04 into a fraction and reduce it to the simplest form.

Answer:

6. In the number 0.628, the digit '6' is
in the _____ place.
7. When 902 is divided by 15, the quotient is _____
and the remainder is _____ .
8. $10 \div 9 \times 90 =$ _____
9. $16 + 14 \times 9 =$
- A. 112
- B. 138
- C. 142
- D. 270

Please do not write in the margin.



10. $6\frac{2}{3} + 1\frac{2}{3} - 4\frac{1}{3} =$

11. Calculate $1.73 \div 0.6$. Round the answer to one decimal place.

Answer: _____

12. $3.1 \times (5.6 + 6.4) =$ _____

13. $\frac{3}{8} \times 1\frac{2}{3} \times \frac{2}{5} =$

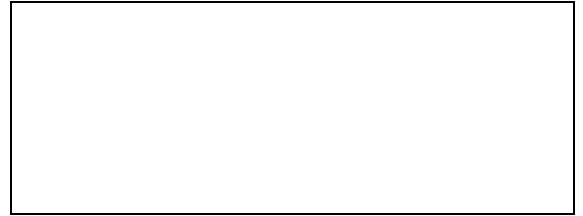
14. John has collected 540 stamps. He puts all the stamps in 3 stamp albums. Each stamp album has 12 pages. How many stamps does each page have on average?

Answer: Each page has _____ stamps on average.

15. $\frac{12}{12}$ is * smaller than / equal to / larger than $\frac{9}{9}$.

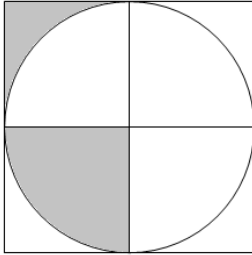
(* Circle the answer)

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16. What percentage of the whole figure below is the shaded part?



Answer: The shaded part is _____ % of the whole figure.

17. Charles has \$90.40. He spends \$50.80 on a lunch with his brother. He also buys his sister a storybook which costs \$20.50.

Which of the following expressions is most suitable for estimating how many dollars Charles has left?

- ☐ A. $90 - 50 - 20$
- ☐ B. $90 - 60 - 30$
- ☐ C. $100 - 50 - 20$
- ☐ D. $100 - 60 - 30$

Please do not write in the margin.



18. A football costs \$36.40. A basketball is \$3.80 cheaper than a football. A P.E. teacher buys a football and a basketball. How much should he pay altogether?

(Show your working)

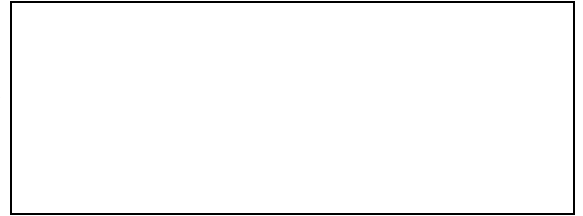
19. (a) Change $3\frac{7}{10}$ into a percentage.

Answer: _____ %

- (b) Change 95% into a fraction and reduce it to the simplest form.

Answer:

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20. A department store has 200 employees and 60% of them are female.

(a) _____ % of the employees are male.

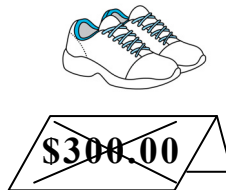
(b) There are _____ female employees in the department store.

21. Sports shoes of the same brand are sold in two shops.

Shop A



Shop B



Shop	Original Price	Special Offer
A	\$400.00	30% Off
B	\$300.00	10% Off

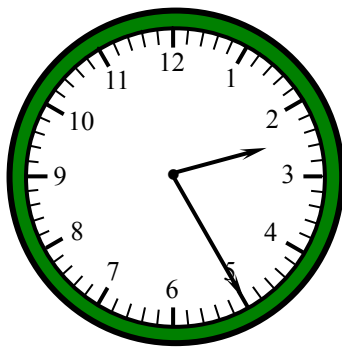
Tom buys a pair of sports shoes of this brand in Shop B.

He will pay \$ _____ * more / less if he buys them in Shop A. (* Circle the answer)

Please do not write in the margin.



22.

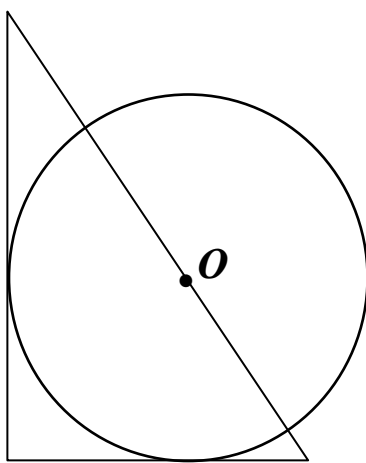


- (a) The clock in the hall showed the time when the guest started his speech. The time was _____ minutes * past / to _____ in the afternoon.

(* Circle the answer)

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

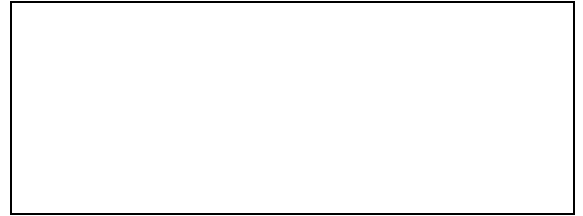
23. A teacher draws a triangle and a circle. **O** is the centre of the circle.



- (a) The teacher draws
* a right-angled / an isosceles / an equilateral triangle. (* Circle the answer)
- (b) Use a ruler to measure the diameter of the circle.

Answer: The diameter is about _____ mm.
(Give your answer as a whole number)

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24. Fill in the following blanks with suitable units.

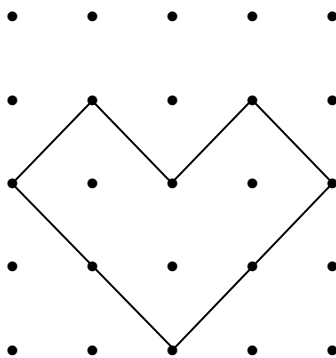
(a) The length of a long-distance race
is about 10 _____ .

(b) A luggage weighs about 20 _____ .

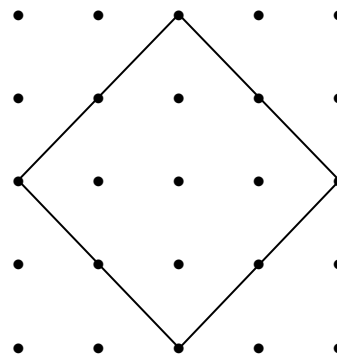
(c) The capacity of a hot water bag
is about 1.5 _____ .



25.



X



Y

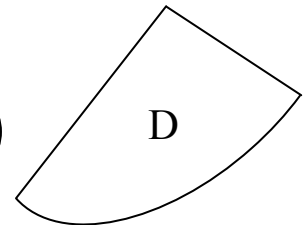
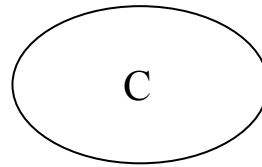
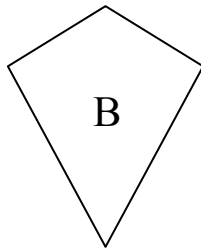
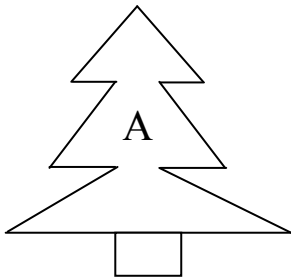
Study the diagrams above. Which of the following statements is correct?

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

Please do not write in the margin.

26. Peter ran a race of 20.4 km. He finished the race in 2 hours. What was his average speed over the whole journey? (Show your working)

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



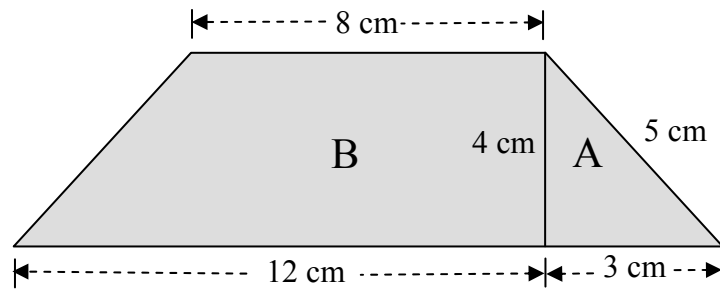
- (a) Which of the 2-D shapes above is / are made up of curves only?

Answer: _____

- (b) Which of the 2-D shapes above is / are made up of straight lines and curves?

Answer: _____

28.



The figure above is made up of Triangle A and Trapezium B.

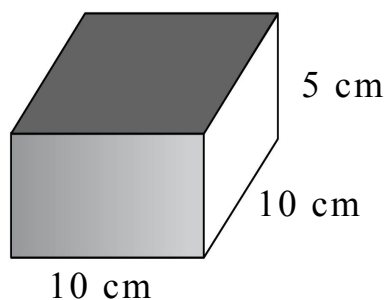
(a) The area of Triangle A is _____ cm^2 .

(b) What is the area of the whole figure?
(Show your working)

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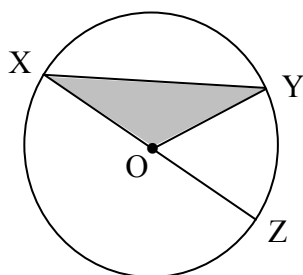
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29.



The volume of the cuboid above is _____ .
(Give your answer with a unit)

30. In the figure below, O is the centre.



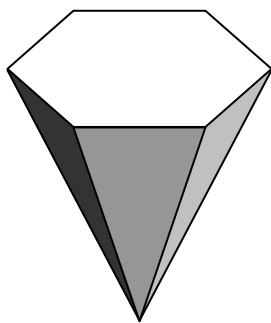
(a) OY is the _____ of the circle.

(b) The shaded part in the figure is

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

(* Circle the answer)

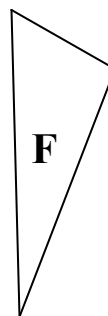
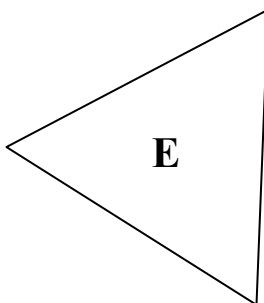
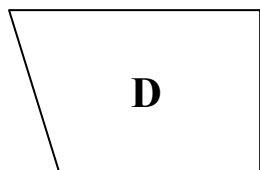
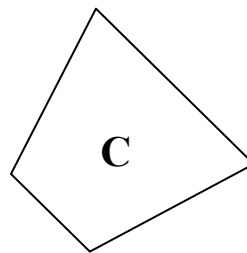
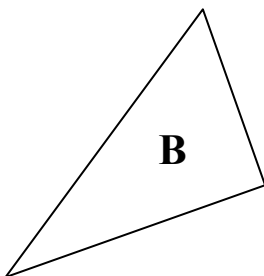
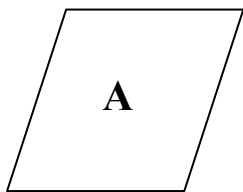
31.



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

It has _____ edges.

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



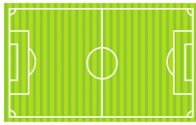
(a) Trapezium: _____

(b) Equilateral triangle: _____

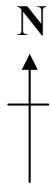
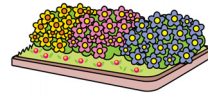
33.

Map of Sports City

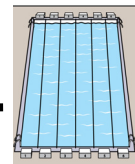
Football Field



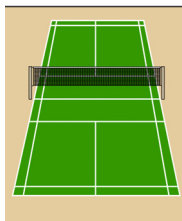
Flower Bed



Canteen



Swimming
Pool



Badminton
Court



Sports Ground

- (a) Vivian goes _____ from Badminton Court to
(direction)
Football Field. Then she turns _____ to
(direction)
reach Flower Bed.
- (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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Please do not write in the margin.

34. 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. $\frac{5}{y} - 2$

35. Which of the following is an equation?

- ☐ A. $\frac{16}{3} = 5\frac{1}{3}$
- ☐ B. $3s + 12 = 12$
- ☐ C. $4 \times \frac{y}{4}$
- ☐ D. $18 \div 6 = 3$

36. $30 = 3P + 10.5$

$P =$

37. $\frac{y}{27} = 1\frac{7}{9}$

$y =$

38.

1-Day Tour to Geology Park
Fee

Adult: \$ 260 each

Child:  each

The fee of an adult is \$40 more than that of 2 children.

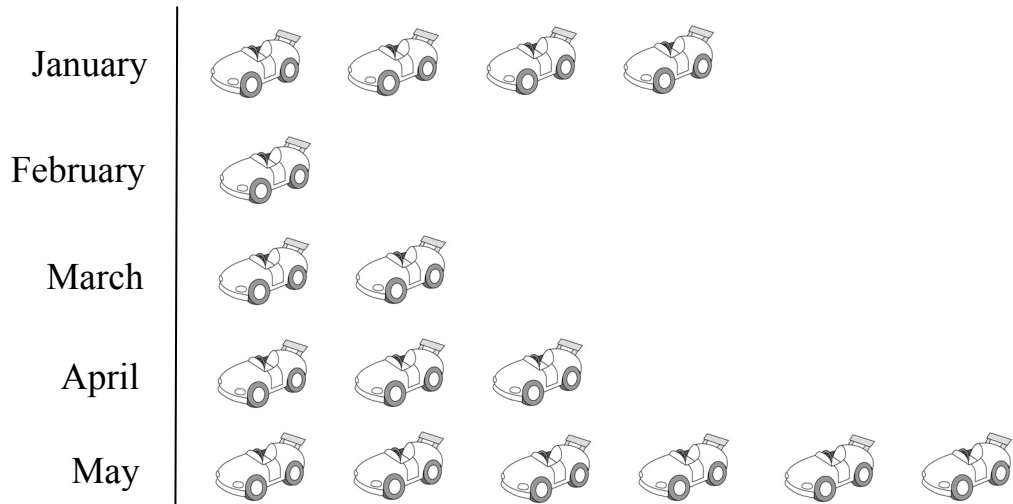
Find the fee of a child by the *method of solving an equation*. (Show your working)

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39. The following pictogram shows the number of model cars made by Good Toy Factory in the last five months.

**Number of Model Cars Made by Good Toy Factory
in the Last Five Months**

Each  stands for 1 000 model cars



- (a) Most model cars were made in _____ and
(month)
the number of model cars made was _____ .
- (b) A total number of _____ model cars were
made from January to May.
- (c) The number of model cars made in January
was _____ times that of March.

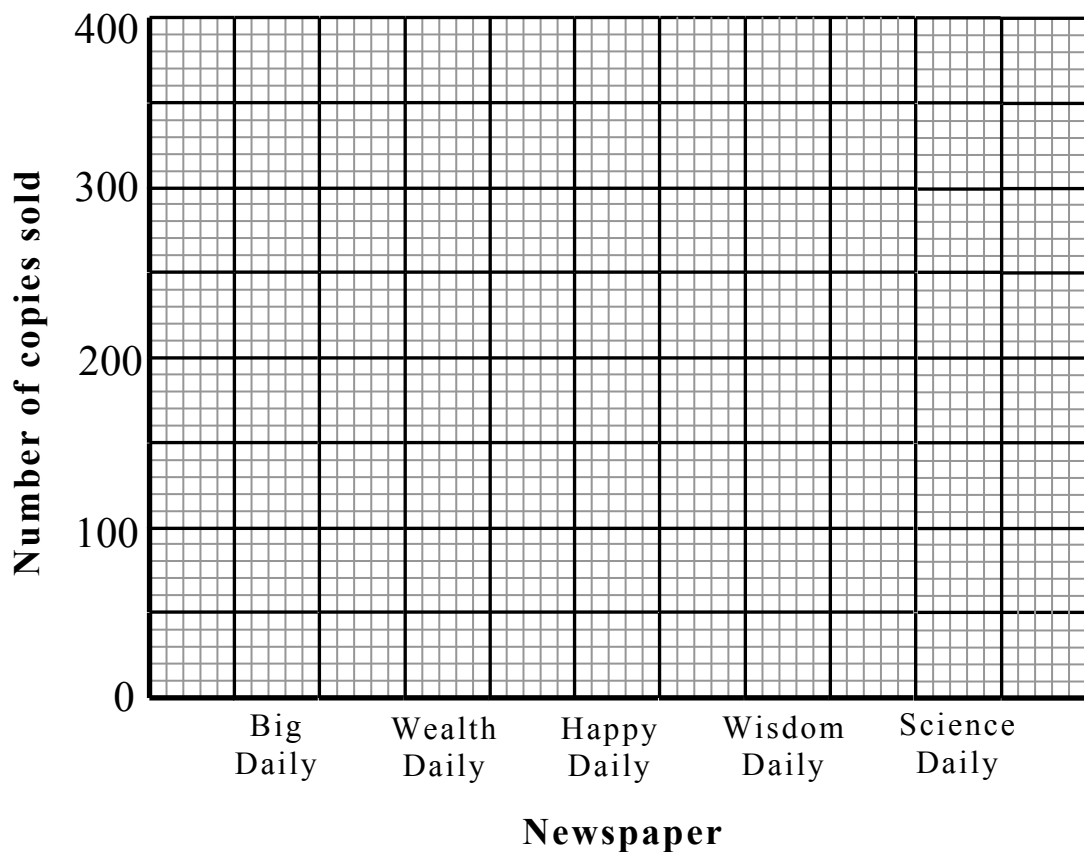
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40. The following shows the number of copies of newspapers sold at a newsstand last week.

Newspaper	Big Daily	Wealth Daily	Happy Daily	Wisdom Daily	Science Daily
Number of copies sold	310	260	380	220	80

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

(Title)



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41. Vivian bought a doll with her savings of the last three months.

The following is her record of savings:

March	April	May
\$50	\$40	\$54



What is Vivian's average monthly savings?
(Show your working)

Please do not write in the margin.

— END OF PAPER —

