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Education Bureau
Territory-wide System Assessment 2012◆
Primary 6
Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 44 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

◆2012 年小六全港性系統評估暫停舉行。此評估是學校以自願形式參與，而非全體小六學生參與的全港性系統評估。
The 2012 P6 TSA has been suspended. Participation in the 2012 P6 TSA is on a voluntary basis. As a result, this is a TSA in which not all P6 students will participate.

1. Arrange the following numbers in ascending order.

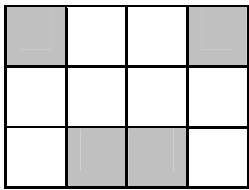
3 092 , 3 209 , 2 930

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

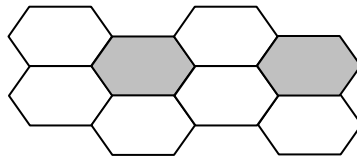
2. Which of the following numbers is a common factor of 12 and 20?

- ☐ A. 4
☐ B. 12
☐ C. 20
☐ D. 60

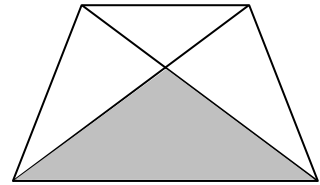
3. Which of the following figures have $\frac{1}{4}$ of the whole shaded? Write all the letters for the answer.



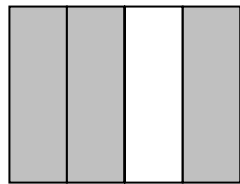
A.



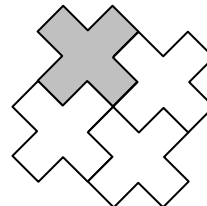
B.



C.



D.



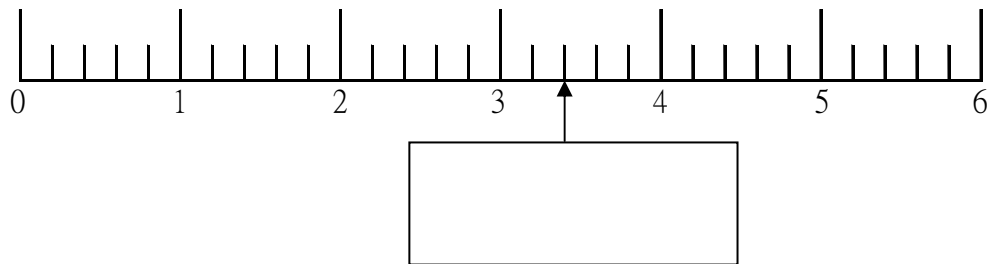
E.

Answer: _____

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



5. Change $3\frac{17}{20}$ into a decimal.

Answer: _____

6. $4\frac{1}{2} \div \frac{3}{10} \times 6 =$

7. $32 \times (300 - 258) =$ _____

8. When 405 is divided by 18, the quotient
is _____ and the remainder is _____.

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Please do not write in the margin.

9. $1\frac{1}{8} \div \frac{2}{3} =$

10. $4.8 \div 1.4 =$ _____
(Correct the answer to two decimal places)

11. $(1.9 + 4.8) \times 4.5 =$ _____

12. There are $8\frac{3}{4}$ kg of wheat. The wheat is put into bags of $\frac{7}{8}$ kg each. How many bags are there?

Answer: There are _____ bags.

13. A school holds a swimming gala. There are 720 pupils in the school. $\frac{3}{8}$ of them take part in the swimming races. The number of pupils not taking part in the races is _____.

14. The thickness of 50 cards is 6.8 cm. On average the thickness of each card is _____ cm. (Correct the answer to two decimal places)

15. Each cake costs \$5.50. Two dozen cakes cost \$ _____.

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16. (a) Mandy starts hiking at



The starting time is _____ minute(s)

* past / to _____ in the

* morning / afternoon. (*Circle the answer)

- (b) Mandy reaches the peak at half past eleven in the morning. She takes _____ hour(s) and _____ minute(s) to reach the peak.

17. There are originally 3.6 L of soya sauce in a canteen. The shopkeeper buys 5.2 L more. All the soya sauce is then poured into bottles. The capacity of each bottle is 0.4 L. How many bottles can be filled?
(Show your working)

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Please do not write in the margin.

18. Find the cheapest item of furniture during the sale by estimation.

	<u>Items of Furniture</u>	<u>Original price</u>	<u>Discount</u>
<input type="radio"/> A.	Sofa	\$3 999.00	30% off
<input type="radio"/> B.	Wardrobe	\$4 488.00	30% off
<input type="radio"/> C.	Table	\$3 579.00	10% off
<input type="radio"/> D.	Bed	\$4 210.00	10% off

19.

<u>Food Price</u>	
Hamburger	\$12.60
Hotdog	\$9.60
Toast	\$8.90
Sandwich	\$11.40

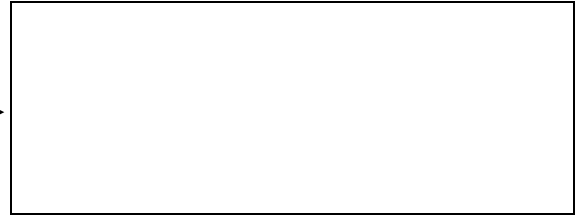
- (a) Tony has \$44. After buying a hamburger and a sandwich, how much money has he left?

Answer: He has \$ _____ left.

- (b) Ben has \$20. Which of the following can he buy?
(Circle the answer)

A toast and a sandwich / Two hotdogs /
Two hamburgers

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20. (a) Change $\frac{3}{8}$ into a percentage.

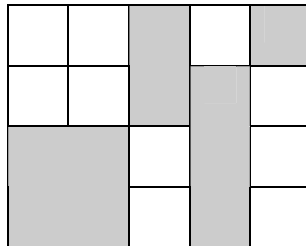
Answer: _____ %

(b) Change 148% into a fraction and reduce it to the simplest form.

Answer:



21.



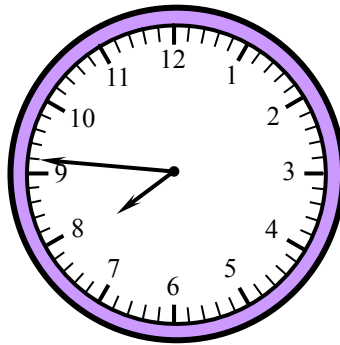
The shaded part of the diagram above is
_____ % of the whole.

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22. The salary of Sunny was \$8 400 last month. His salary is increased by 5% this month. What is his salary this month?

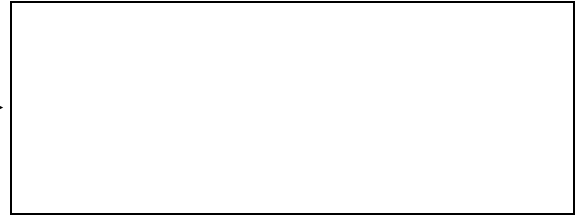
(Show your working)

23. The clock below shows the time that Mary got on the school bus in the morning.

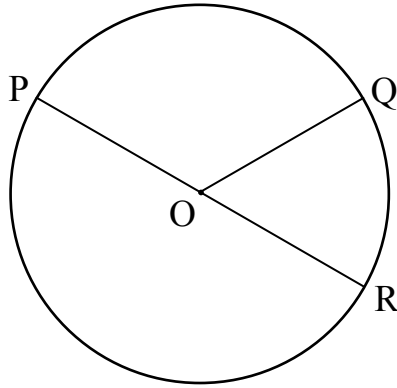


- (a) She got on the school bus at
_____ minutes to _____.
- (b) The school bus reached school after 20 minutes.
In '24-hour time', the time was
_____ : _____.

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24. In the diagram below, O is the centre of the circle.




- (a) The straight line _____ is a diameter of the circle.
- (b) Use a ruler to measure the length of a radius of the circle.
Answer: The length of a radius is _____ cm.

25. Fill in each blank with a suitable unit of measurement.

- (a) A reusable shopping bag  weighs about 30 _____ .

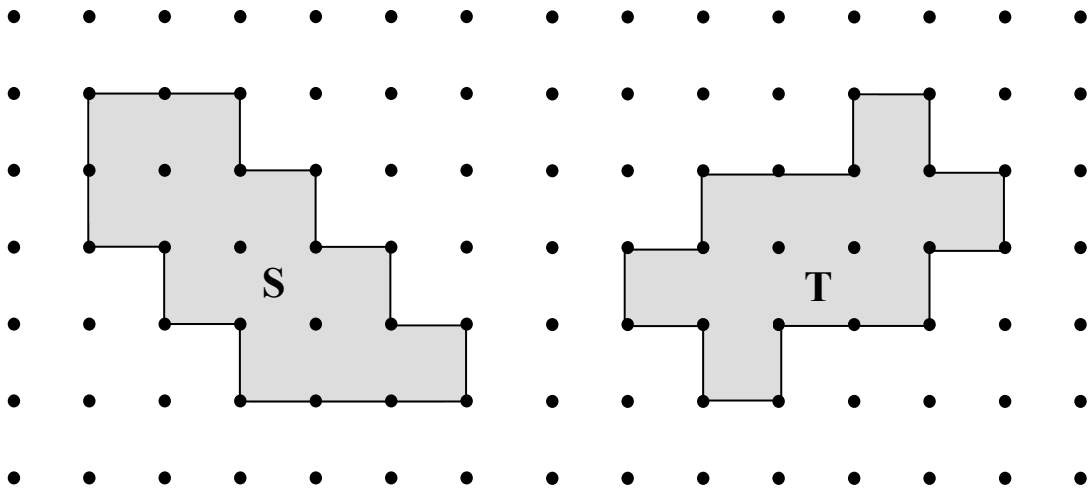
- (b) The height of a flagpole  is about 6.5 _____ .

- (c) The capacity of a vase  is about 500 _____ .

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26.

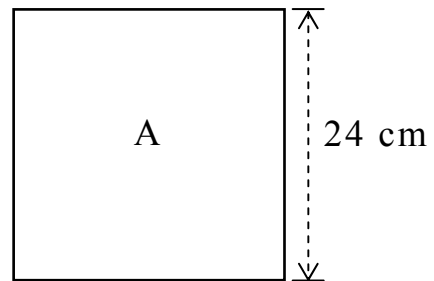


Study the diagrams above. Which of the following statements is correct?

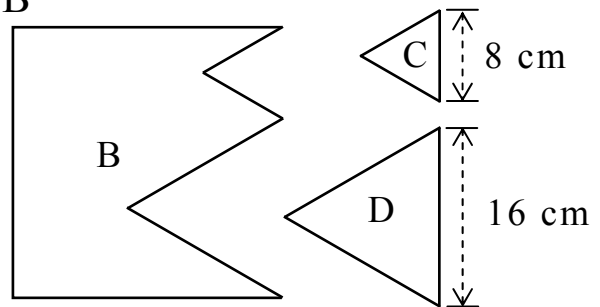
- ☐ A. The perimeter of S is longer than that of T.
- ☐ B. The perimeter of S is shorter than that of T.
- ☐ C. The perimeters of S and T are the same.
- ☐ D. The perimeters of S and T cannot be compared.

27. Figure A is a square of side 24 cm.

- (a) The perimeter of figure A is _____ cm.



- (b) Two equilateral triangles are cut away from figure A.
The perimeter of figure B is _____ cm.



28. The rectangle below is made up of two identical squares. The perimeter of each square is 72 cm. Find the perimeter of the rectangle.

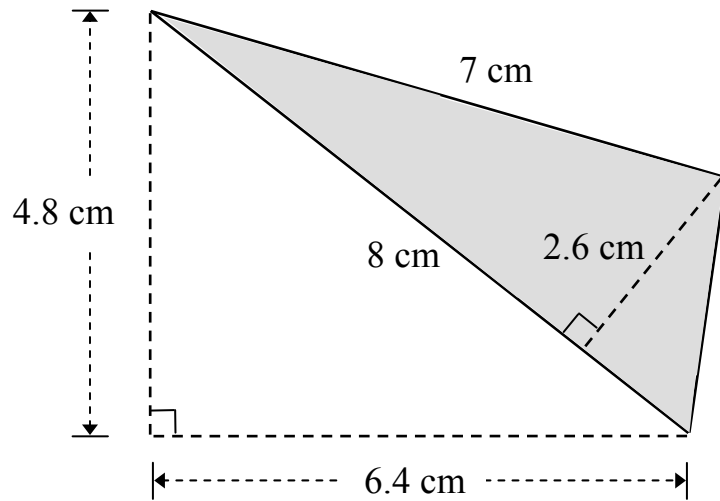


The perimeter of the rectangle is

- ☐ A. 90 cm.
- ☐ B. 108 cm.
- ☐ C. 126 cm.
- ☐ D. 144 cm.
29. It takes 2 minutes for the children's train to go round the circular rail once. The length of the rail is 264 m.
(Take π as $\frac{22}{7}$)
- (a) The radius of the circular rail is _____ m.
- (b) The average speed of the children's train is _____ m/s.

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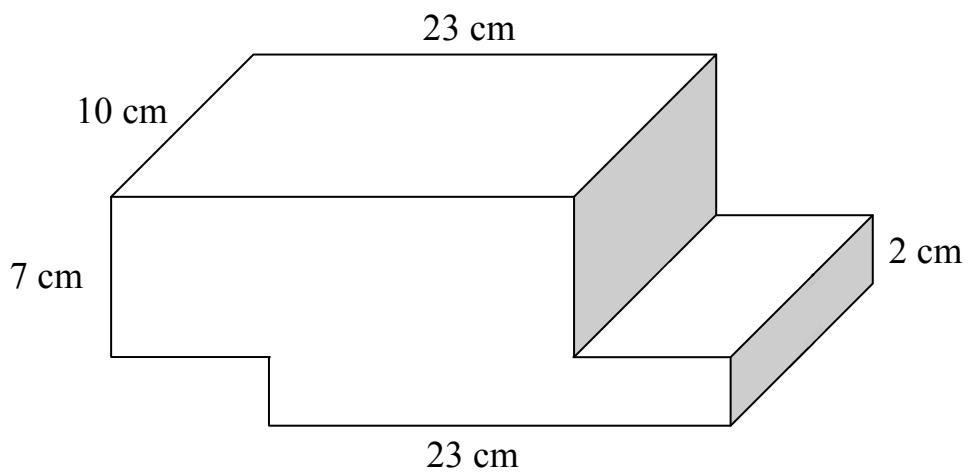
30.



Find the area of the shaded triangle in the above figure.
(Show your working)

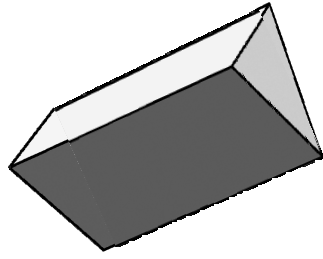
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31.



The volume of the solid above is _____ cm^3 .

32.

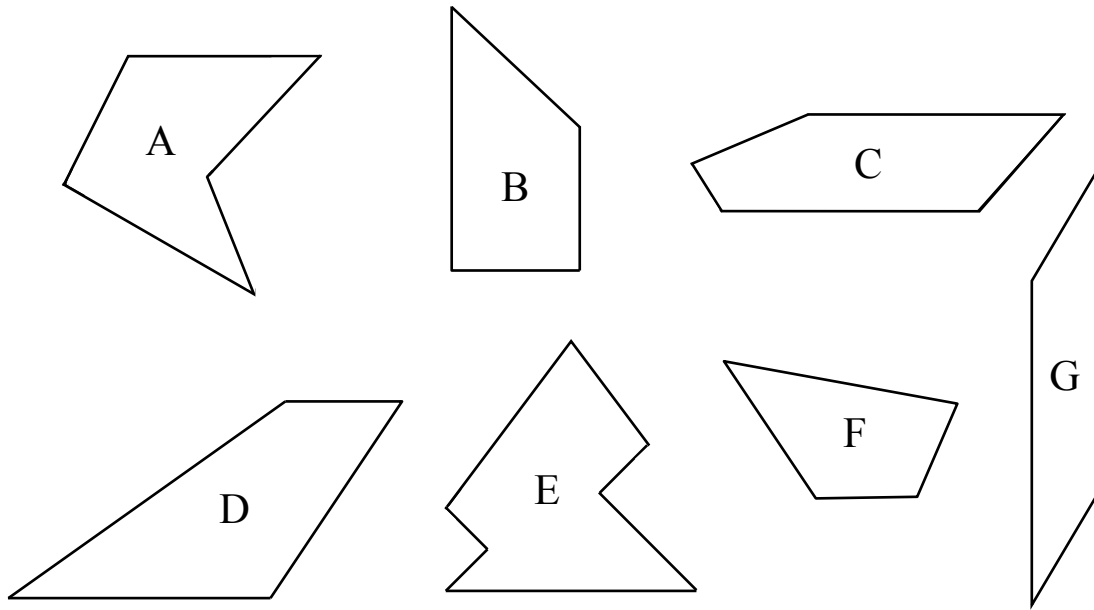


The above figure is a * pyramid / prism.

(*Circle the answer)

It has _____ faces and _____ edges.

33.



(a) Which of the above shapes are pentagons? Write the letters for the answer.

Answer: _____

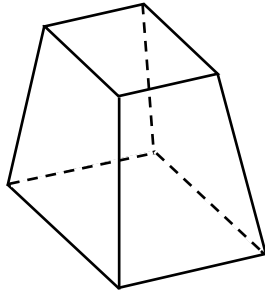
(b) Among the above quadrilaterals,
* _____ and _____ have only one pair of
opposite sides parallel. (*Write the letters for the
answer)

What is the name of these shapes?

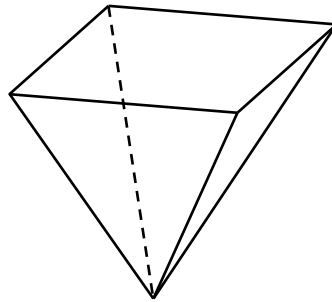
Answer: _____

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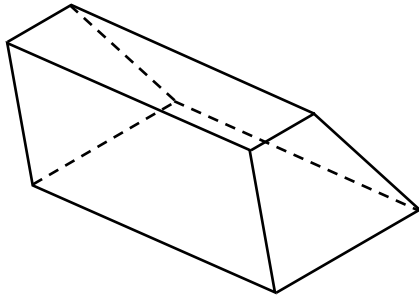
34. Which of the following 3-D shapes is a quadrilateral prism?



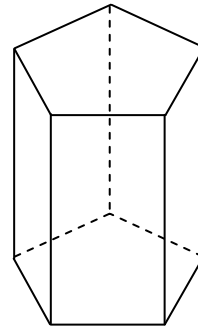
☐ A.



☐ B.



☐ C.



☐ D.

35. Find the average of the five numbers below.

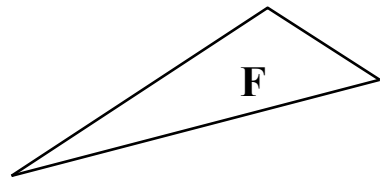
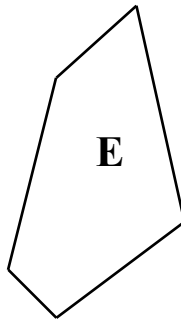
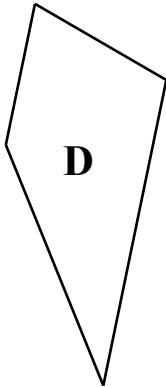
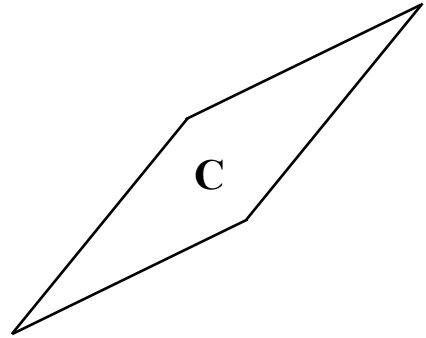
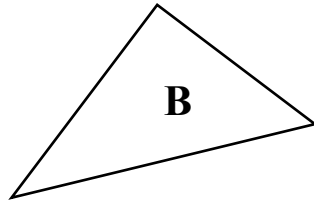
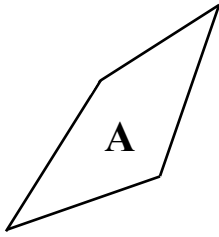
$$12\frac{1}{5} \quad , \quad 16.8 \quad , \quad 4.1 \quad , \quad 8.9 \quad , \quad 3$$

Answer: The average is _____.

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Please do not write in the margin.

36. Study the following 2-D shapes. Write the letters for the answers.

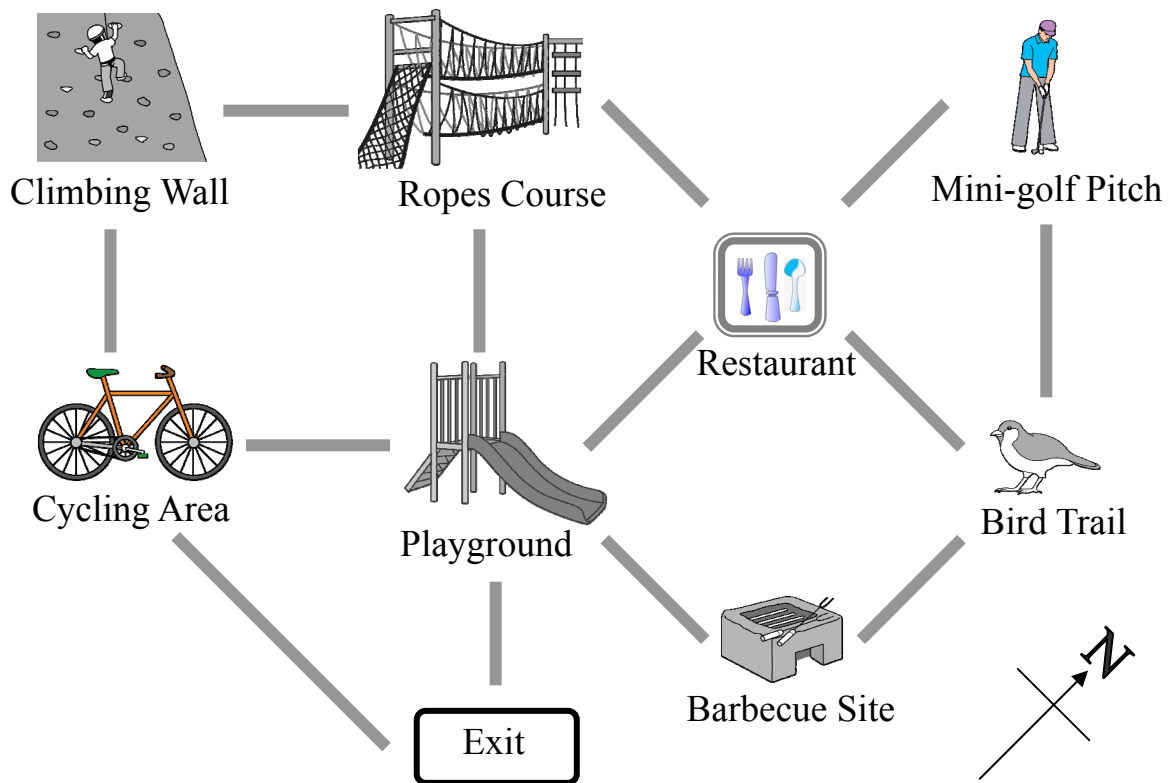


(a) Trapezium(s): _____

(b) Right-angled triangle(s): _____

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37. The following is the map of a recreation centre.



- (a) Ropes Course is to the _____ of Playground.
(direction)
- (b) Starting from Mini-golf Pitch, Mandy goes _____ to Bird Trial.
(direction)
- (c) Alan goes from Barbecue Site to Restaurant.
He goes west to _____ and then
turns _____ to reach Restaurant.
(direction)

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Please do not write in the margin.

38. Which of the following are equations? Write the letters for the answer.

A. $9 \times 3 = 27$

B. $6.4 + 2K = 10$

C. $4a > 20$

D. $33 - 6A$

E. $5 \times (B + 4) = 30$

Answer: _____

39. $19 = 27 - M$

$M =$

40. $\frac{t}{2} - 1\frac{1}{4} = 2\frac{1}{4}$


$t =$

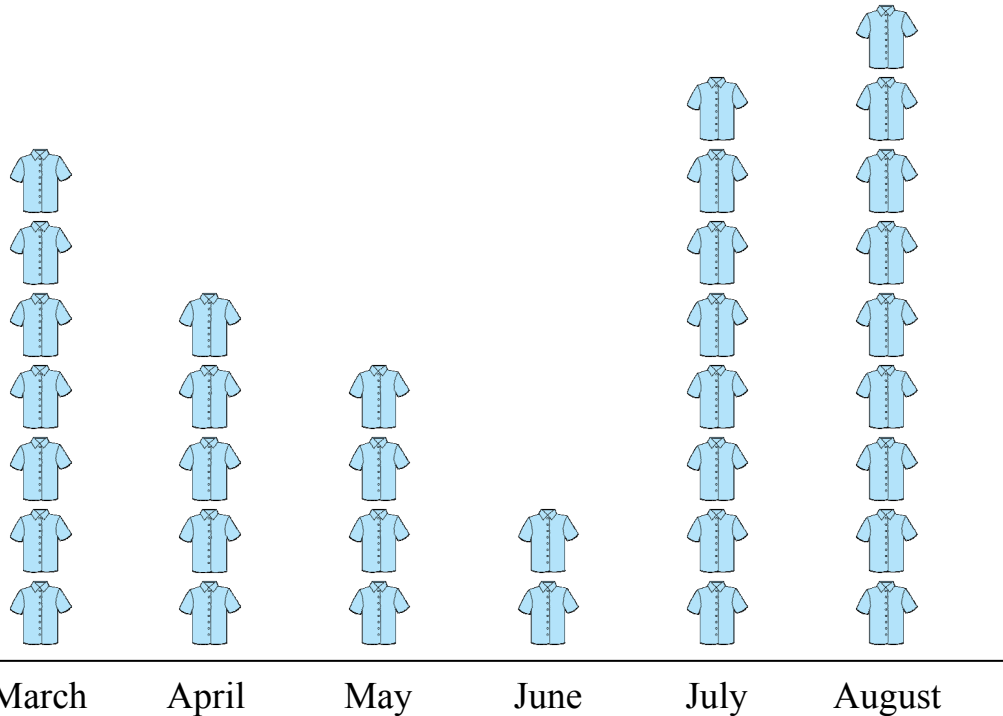
41. There were 38 roses in a flower shop. After k roses were sold, roses were left.

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42. The following pictogram shows the number of school uniforms sold in Happy Shop from March to August.

Number of School Uniforms Sold in Happy Shop from March to August

Each  stands for 100 school uniforms



- (a) The number of school uniforms sold in _____ (month) was the largest. _____ school uniforms were sold in that month.
- (b) The number of school uniforms sold in July was _____ times as many as the number of school uniforms sold in June.
- (c) Express the number of school uniforms sold in April as a fraction of the total number of school uniforms sold.

Answer: The number of school uniforms sold in

April was

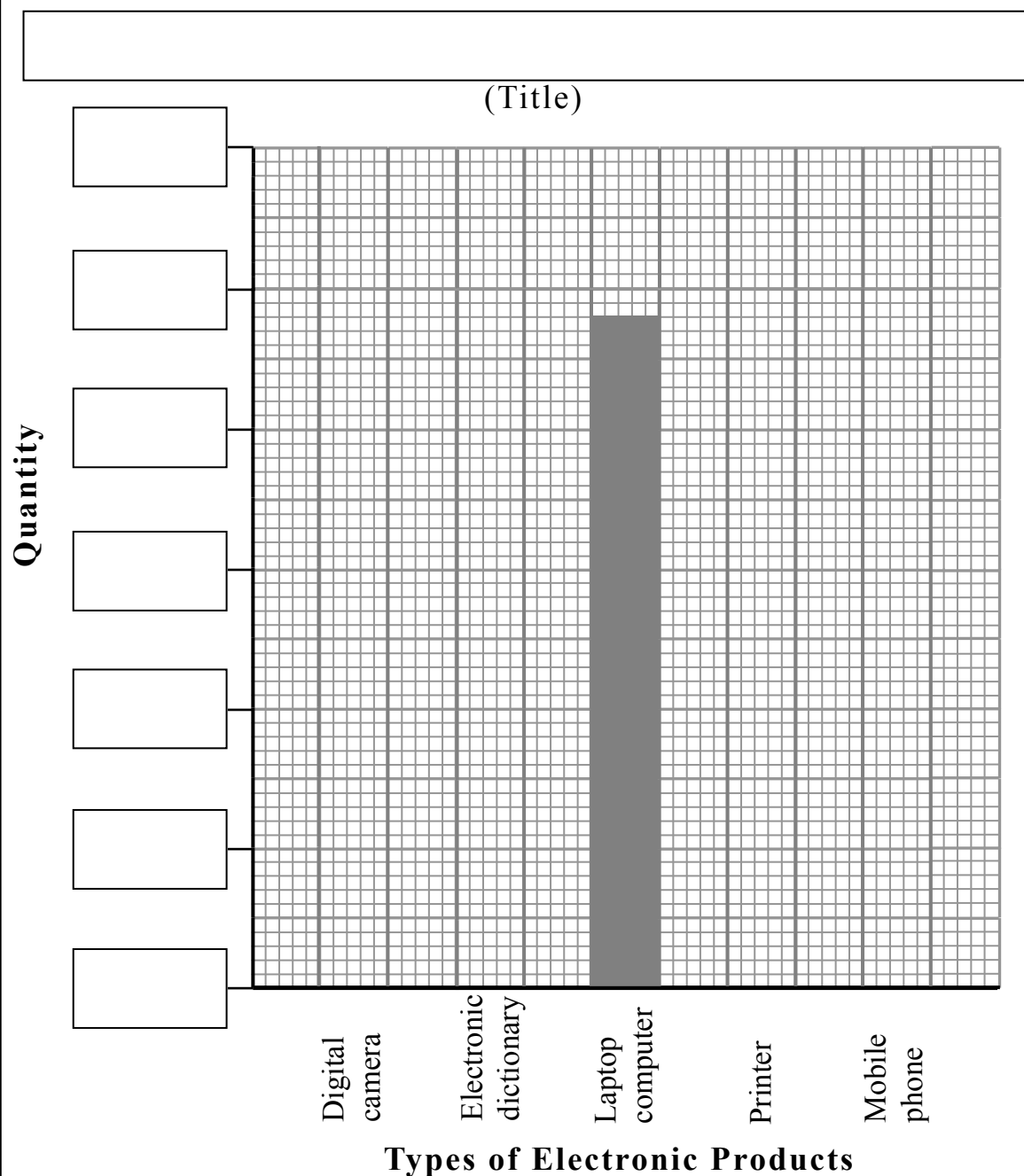
of the total.

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43. The following table shows the sales of electronic products last week.

Types of electronic products	Digital camera	Electronic dictionary	Laptop computer	Printer	Mobile phone
Quantity	520	340	480	210	160

According to the above data, complete the following bar chart and give it a suitable title.



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44. Michael, Karen and Jack shared a box of biscuits equally. After eating 6 biscuits, Karen had 14 biscuits left. By the method of solving an equation, find the original number of biscuits in the box.
(Show your working)

— END OF PAPER —

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