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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 numbers has the digit '6' in its thousands place?

- ☐ A. 26.015
- ☐ B. 260.15
- ☐ C. 2 601.5
- ☐ D. 26 015

2. 42 is a factor of

- ☐ A. 3.
- ☐ B. 7.
- ☐ C. 21.
- ☐ D. 84.

3. List all the factors of 25.

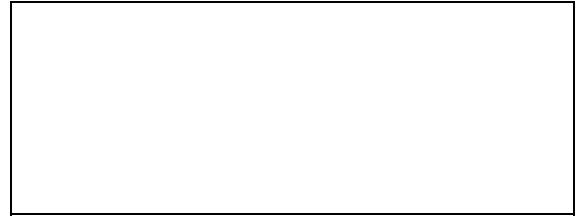
Answer: _____

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

5. $\frac{17}{18}$ is * smaller than / equal to / larger than $\frac{16}{16}$.

(*Circle the answer)

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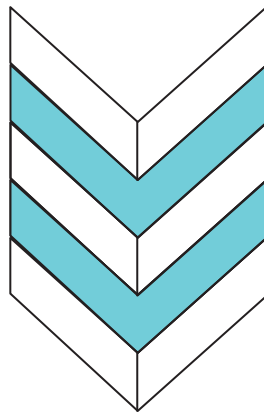
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6. The first common multiple of 12 and 20 is 60.

Which of the following numbers is their third common multiple?

- ☐ A. 4
- ☐ B. 120
- ☐ C. 180
- ☐ D. 240

7. Use a pencil to shade the figure below so that the shaded part is $\frac{7}{10}$ of the whole figure.



Please do not write in the margin.



8. (a) Change $5\frac{11}{30}$ into an improper fraction.

Answer:

- (b) Change $\frac{65}{9}$ into a mixed number.

Answer:

9. Which of the following fractions is the smallest?

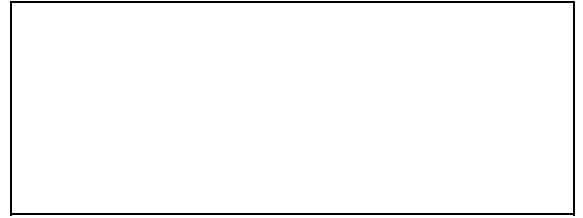
(Circle the answer)

$$\frac{17}{15} \quad , \quad 1\frac{1}{5} \quad , \quad \frac{17}{8}$$

10. Change 3.65 into a fraction and reduce it to the simplest form.

Answer:

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11. In the number 3.076, what is the value represented by the digit '7'?

- ☐ A. 70
- ☐ B. $\frac{7}{10}$
- ☐ C. $\frac{7}{100}$
- ☐ D. $\frac{7}{1000}$

12. $10 \div 6 \times 42 =$ _____

13. $50 \times (24 + 16) =$ _____

14. $6\frac{1}{7} - 5\frac{1}{9} =$

15. $4\frac{2}{3} \div 1\frac{1}{7} =$

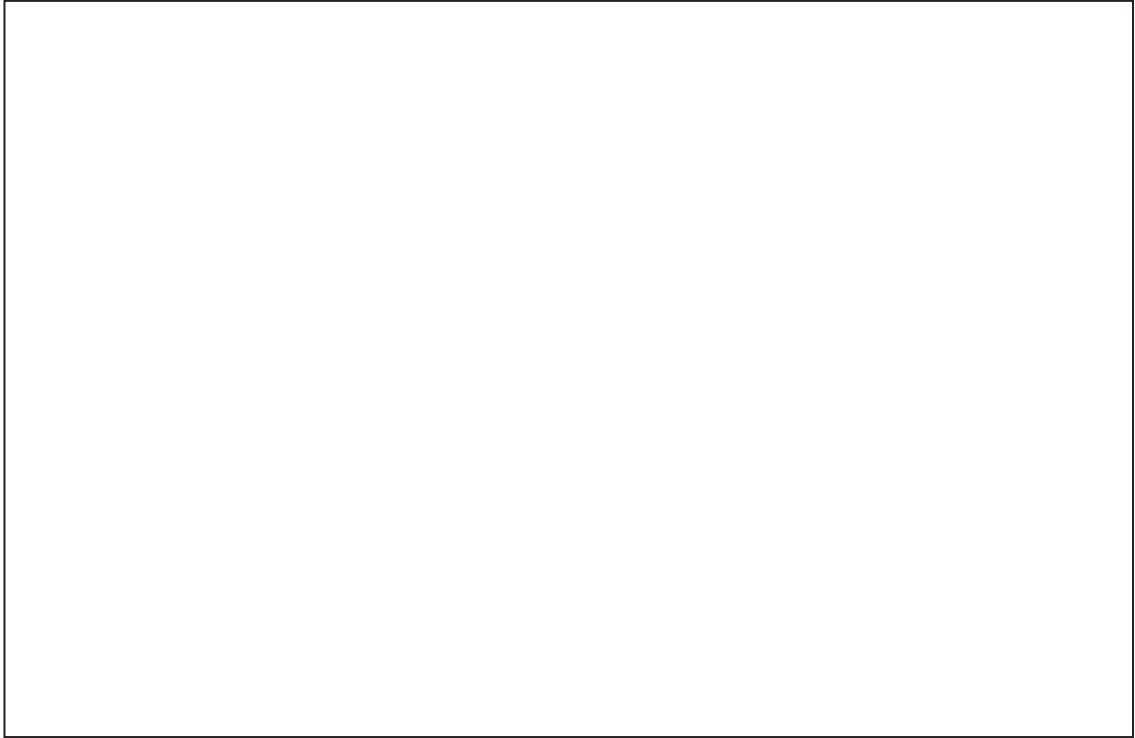
16. $20 \times 1.4 \times 0.9 =$ _____

17. $9.05 \div 0.5 =$ _____

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Please do not write in the margin.

18. Mother bought 5 litres of juice. Peter drank $1\frac{1}{4}$ litres and John drank $\frac{3}{5}$ litre. How many litres of juice were left?
(Show your working)



19. 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.

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20. Kitty mixes 1.25 L of pineapple juice and 2.6 L of orange juice. Then she pours the juice equally into 7 bottles. How much juice does each bottle contain? (Show your working)

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21. (a) Change 1.5% into a decimal.

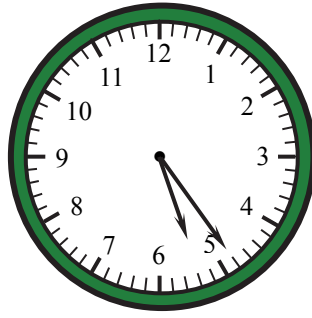
Answer: _____

- (b) Change 0.304 into a percentage.

Answer: _____ %



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

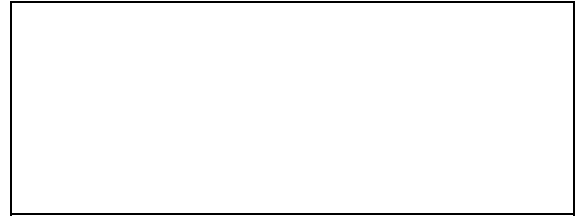
was _____ : _____ .

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

23. Betty bought a pizza. She ate three-fifths of it.

She ate _____ % of the whole pizza.

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24. Green Company buys 30.5 kilograms of plastic bottles for 122 dollars.

Each kilogram of plastic bottles costs _____ dollars on average.

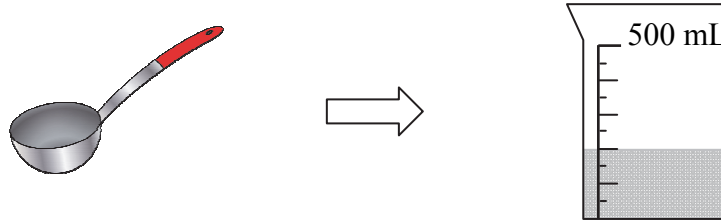
25. Charles made a phone call to Hong Kong for 4.8 minutes from overseas. He should pay \$50.80 .

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. $60 \div 5$

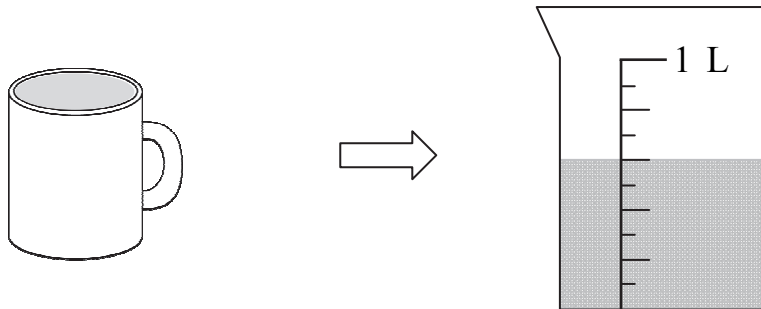
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26. (a) Fill up a ladle with water and then pour all the water into a beaker.



The capacity of a ladle is _____ mL.

- (b) Fill up a cup with water and then pour all the water into a beaker.



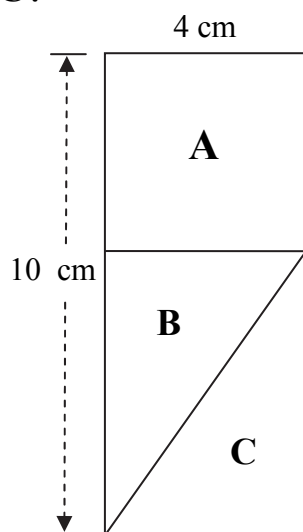
The capacity of a cup is _____ L.

- (c) The capacity of a cup is _____ mL

* more / less than the total capacity of 4 ladles.

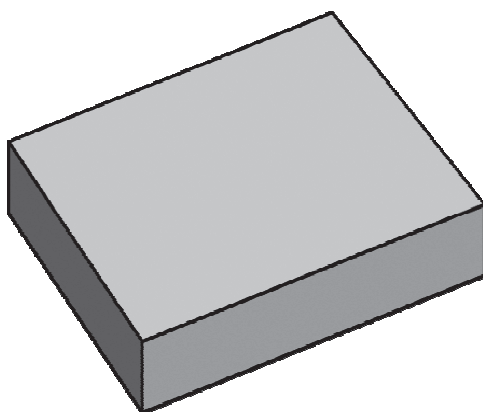
(*Circle the answer)

27. The rectangle below is made up of square **A** and triangles **B** and **C**.



- (a) The area of **A** is _____ cm^2 .
- (b) **B** is * an isosceles / an equilateral / a right-angled triangle.
(*Circle the answer)
- (c) The total area of **B** and **C** is _____ cm^2 .

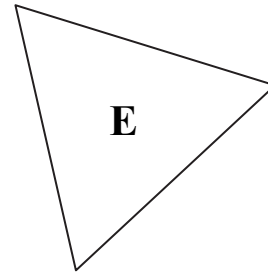
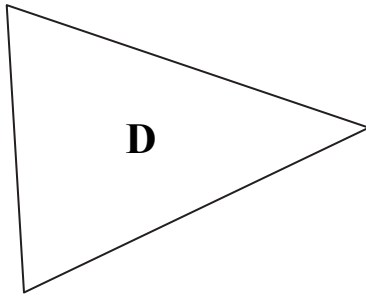
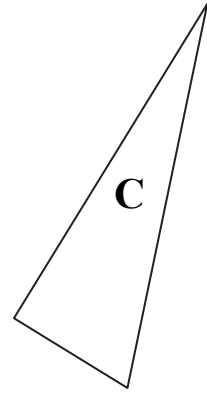
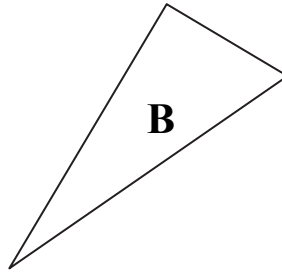
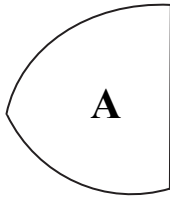
28.



The figure above is a prism.

It has _____ faces and _____ edges.

29.



Among the figures above, the triangle with only two equal sides is _____ .

(Write the letter for the answer)

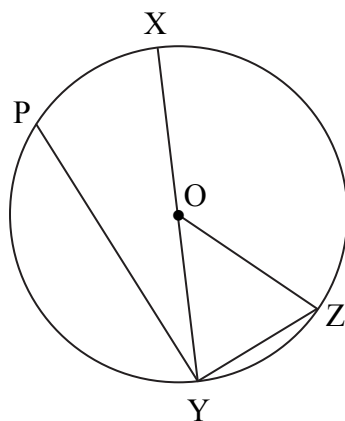
It is * an isosceles / a right-angled / an equilateral triangle.

(*Circle the answer)

30. The average speed of the Peak Tram is about

15 _____ . (Give a suitable unit)

31.

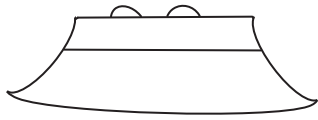


In the figure above, point O is the centre of the circle.

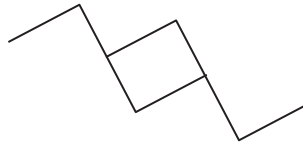
- (a) The straight lines OY, YZ and ZO form
 * an isosceles / a right-angled / an equilateral triangle.
 (*Circle the answer)
- (b) Which of the straight lines below is a diameter?
- ☐ A. PY
 - ☐ B. XY
 - ☐ C. YZ
 - ☐ D. ZO

32. A rhombus has _____ equal sides and
 _____ pair(s) of opposite sides parallel.

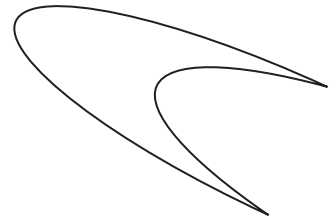
33. Study the following 2-D shapes. Write the letter(s) for the answer.



A



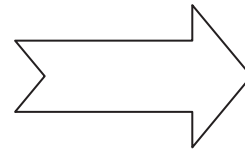
B



C



D



E

List:

(a) Figure(s) having curves only: _____

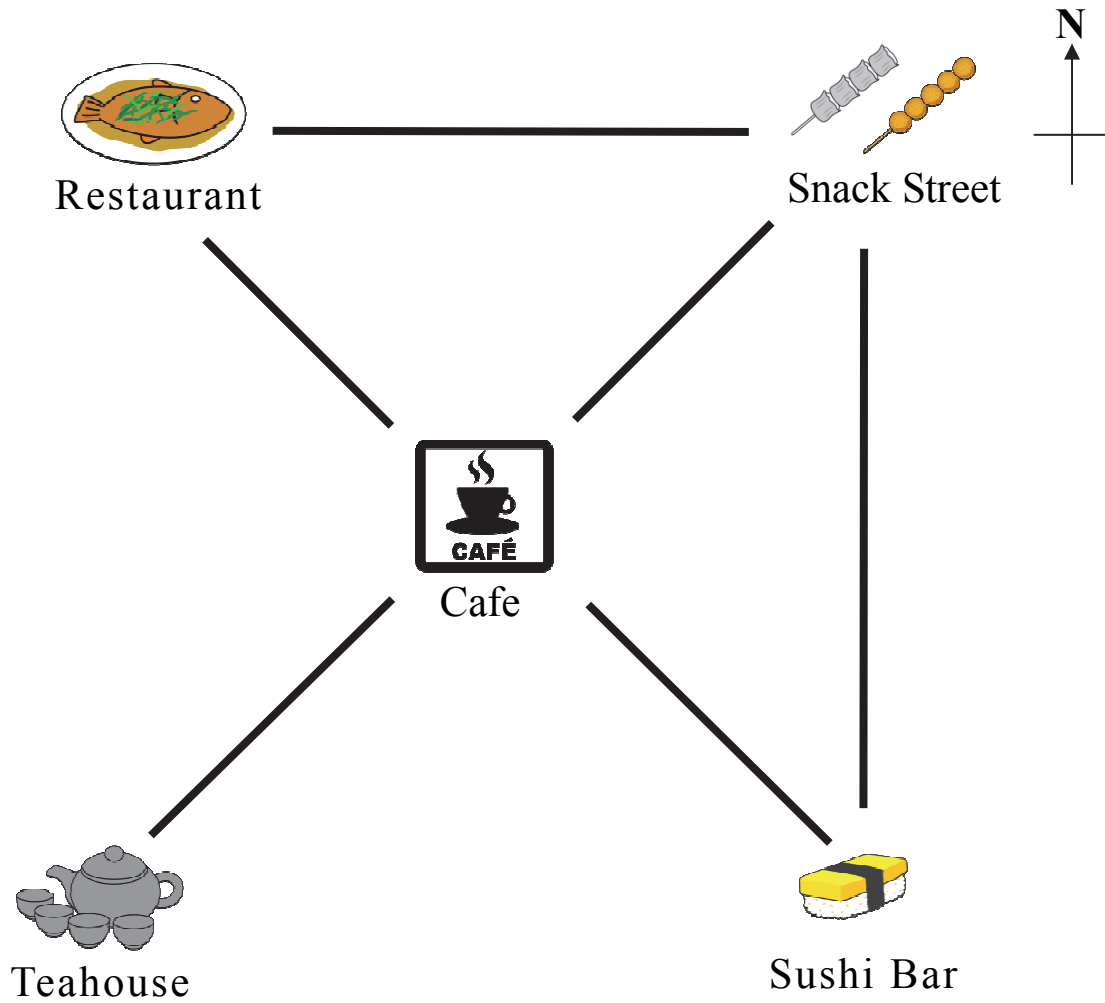
(b) Figure(s) having straight lines and curves:

34. Judy has 120 dollars of pocket money. She spends y dollars each day. How much does she still have after one week?

- ☐ A. $120 - 7y$
☐ B. $7y - 120$
☐ C. $120 - \frac{y}{7}$
☐ D. $(120 - y) \times 7$

Please do not write in the margin.

35. The map of Food Court is shown below.



Please do not write in the margin.

- (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)

36. $96y = 48$

 $y =$

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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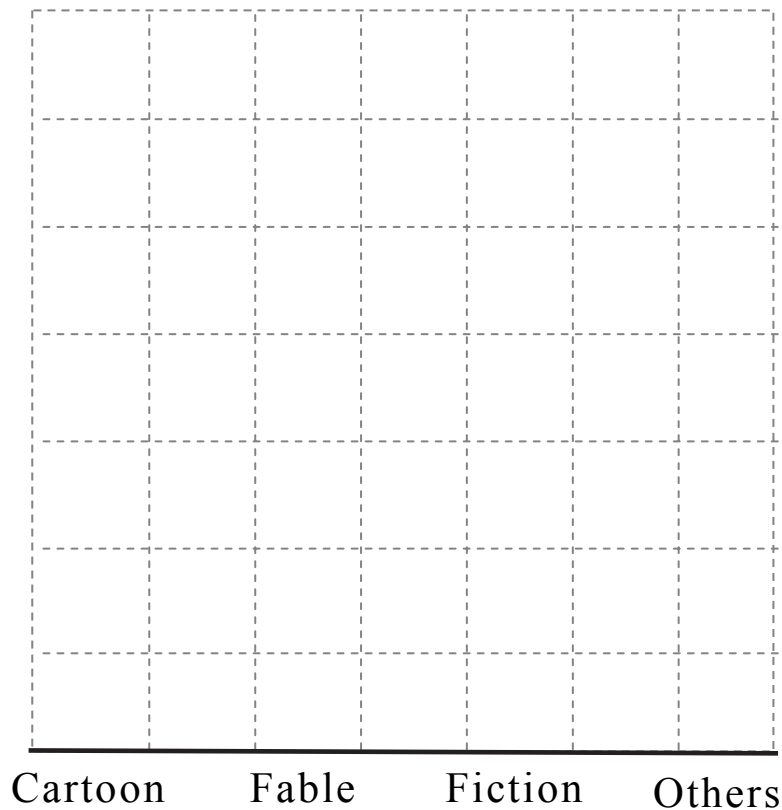
38. The following table shows the number of books read by Primary Six pupils in the first term.

Kinds of books	Cartoon	Fable	Fiction	Others
Number of books	200	400	500	100

According to the information above, construct a pictogram and give it a title.

(Title)

Each  stands for 100 books



Cartoon

Fable

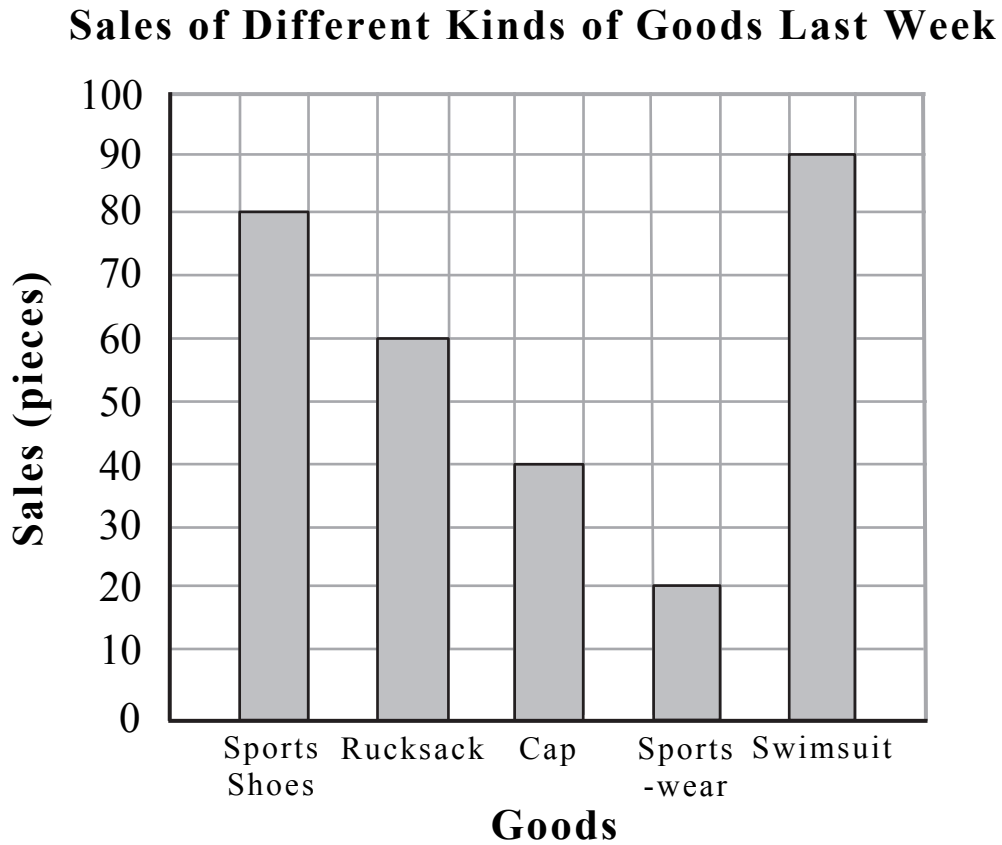
Fiction

Others

Kinds of Books

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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)

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40. Peter joined a singing contest. Five judges gave him the following scores:

7 , 8 , 9 , 9 , 10

Peter's average score was _____ .

— END OF PAPER —

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