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Education Bureau
Territory-wide System Assessment 2008
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/equations, 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

1. Which of the following pairs of numbers has common factors 1, 3 and 9?

☐ A. 15, 30
☐ B. 18, 30
☐ C. 27, 45
☐ D. 45, 60

2. List all the common factors of 24 and 56.

Answer: _____

3. The Least Common Multiple (L.C.M.) of 4 and 14

is _____ .

4. Fill in each of the following boxes with the sign '>' (larger than), '<' (smaller than) or '=' (equal to).

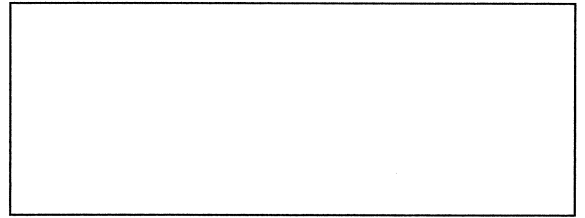
(a) $\frac{9}{3}$ 3

(b) $4\frac{2}{3}$ $\frac{19}{4}$

5. $45 \times 513 =$ _____

6. $10 \div 3 \times 21 =$ _____

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7. Change $4\frac{3}{7}$ into a decimal and correct the answer to two decimal places.

Answer: _____

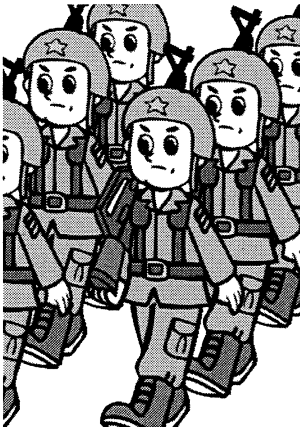
8. $5\frac{1}{3} - 4\frac{2}{9} + 1\frac{1}{6} =$

9. $3\frac{1}{2} \times \frac{3}{7} \div 3 =$

10. Calculate $18 \div 0.7$ and correct the answer to two decimal places.

Answer: _____

11.



There are 392 soldiers. Half of them have special training. If these soldiers are queued up in rows of seven, how many rows are there?

Answer: There are _____ rows.

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12. James has pocket money of \$128 every week. He spends $\frac{4}{5}$ of it and saves the rest. How much does he save every week?

(Show your working)

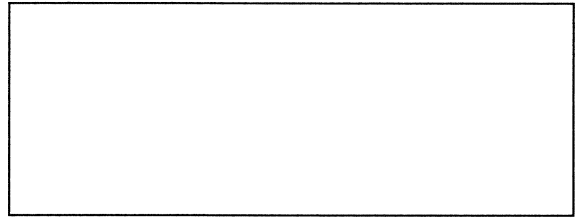
13. There are 12 kg of peanuts. They are put into bags of $\frac{4}{5}$ kg each. How many bags are there?

Answer: There are _____ bags.

14. The following shows Maggie's dictation results from Primary 3 to Primary 6. Estimate the class level in which she has the highest average mark.

	<u>Class Level</u>	<u>Number of Dictations</u>	<u>Total Mark</u>
<input type="radio"/> A.	P.3	6	482
<input type="radio"/> B.	P.4	7	629
<input type="radio"/> C.	P.5	8	640
<input type="radio"/> D.	P.6	9	722

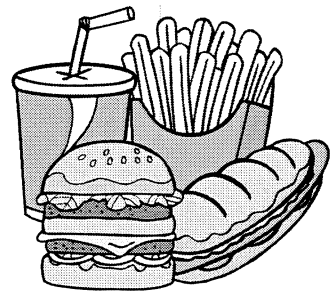
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15. According to the menu of Delicious Fastfood Shop, answer the following questions.

Delicious Fastfood Shop

Hotdog	\$9.50
Hamburger	\$12.40
Potato chips	\$6.80
Soft drink	\$7.00
Set A (Hotdog, potato chips and soft drink)	\$20.00
Set B (Hamburger, potato chips and soft drink)	\$25.00



- (a) How much does it cost for a hotdog and a soft drink?

Answer: It costs \$ _____ .

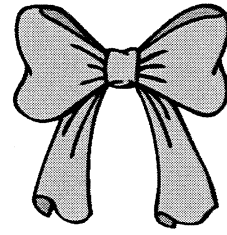
- (b) How much cheaper is the cost of Set A than the total cost of buying a hotdog, potato chips and a soft drink separately?

(Show your working)

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16. A bow needs a ribbon of 8.5 cm long;
12 bows need _____ cm of ribbon.



17. (a) Change $\frac{7}{8}$ into a percentage.

Answer: _____ %

- (b) Change 124% into a fraction and reduce it to the simplest form.

Answer:

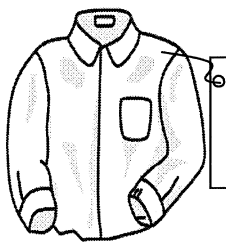
18. (a) Change 153% into a decimal.

Answer: _____

- (b) Change 0.425 into a percentage.

Answer: _____ %

19.

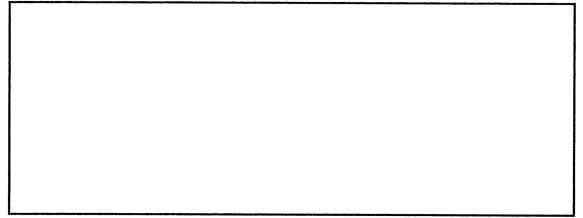


Original price
\$140.00

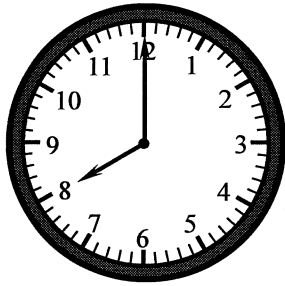


After the discount, the selling price of the shirt in the diagram is \$_____.

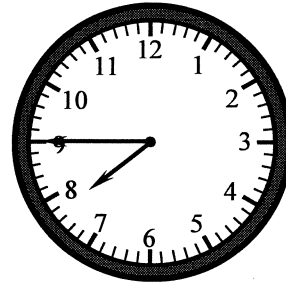
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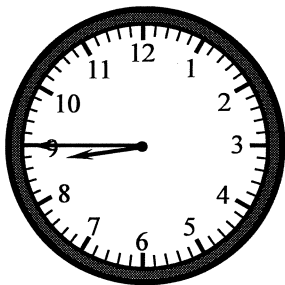
20. The school bell rings at 7:50 in the morning. If Jenny was not late for school, which of the following could be her arrival time?



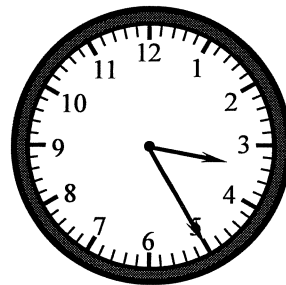
☐ A.



☐ B.



☐ C.



☐ D.

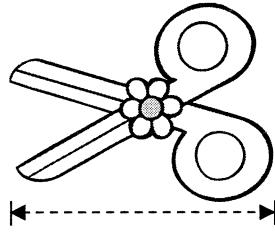
21. Fill in each blank below with a suitable unit of measurement.

- (a) A watermelon weighs about 5 _____ .
(b) The capacity of a carton of lemon tea is about 250 _____ .
(c) A pack of chocolate weighs about 50 _____ .
(d) The distance of a marathon race is about 42 _____ .
(e) The body length of an ant is about 4 _____ .

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22.



It is most suitable to measure the length of a pair of children scissors with



Finger width

☐ A.



Finger span

☐ B.



Arm length

☐ C.



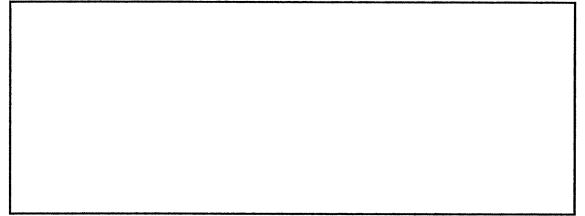
Foot span

☐ D.

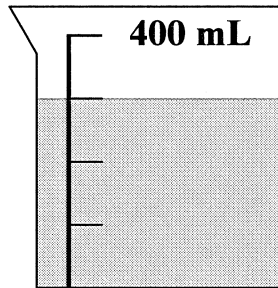
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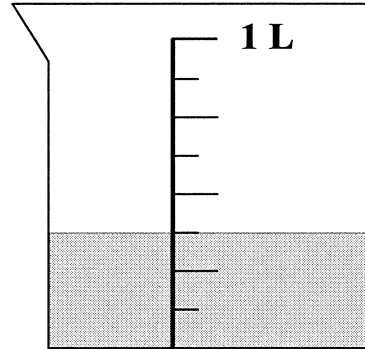
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23.



A

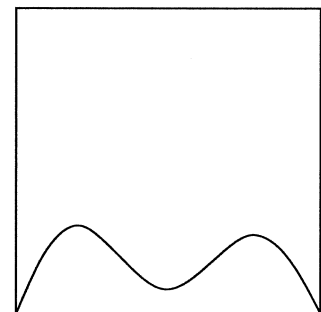


B

- (a) Beaker B contains _____ of milk. (give the answer with a unit)
- (b) Beaker * A / B (*circle the answer) contains more milk.

24. The shape on the right is made up of three straight lines of equal length and a curve.

- (a) Measure the length of a straight line with a ruler.
- Answer: The length of a straight line is _____ cm.



- (b) The length of the curve is 6 cm.
- The perimeter of the shape is _____ cm.

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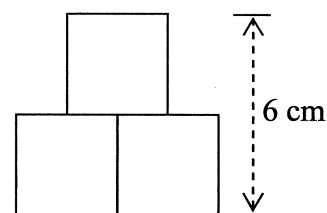
25. The diameter of an iron ring is $1\frac{1}{2}$ m. How many iron rings can be made with a wire 33 m long? (take π as $\frac{22}{7}$)

Answer: _____ iron rings can be made.

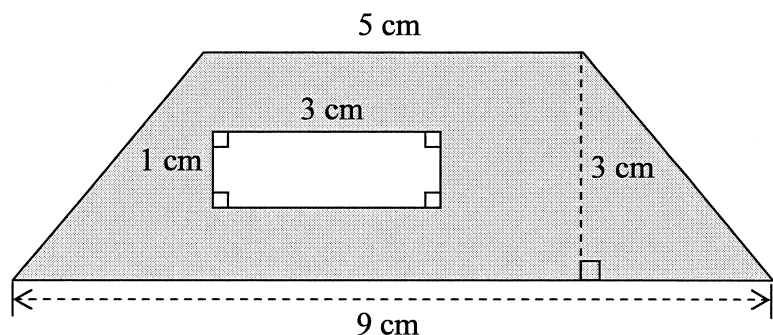
26. The circumference of a circle is 3 m. Its diameter is about _____ m. (give the answer as a whole number)

27. The figure on the right is made up of three identical squares.

The area of the figure is _____ cm^2 .



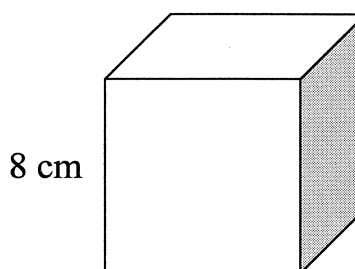
28.



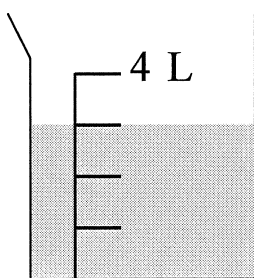
Find the area of the shaded part in the trapezium above.
(Show your working)

29. What is the volume of the cube on the right?

- ☐ A. 24 cm^3
☐ B. 32 cm^3
☐ C. 64 cm^3
☐ D. 512 cm^3



30.



How many containers each of volume 500 cm^3 can be filled by the water in the beaker?

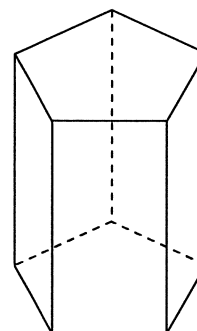
Answer: _____ containers
can be filled.

31. Mr Cheung drives at a speed of 50 kilometres per hour.

He can travel _____ kilometres in $2\frac{1}{2}$ hours.

32. The solid on the right is a pentagonal
*pyramid / prism (*circle the answer).

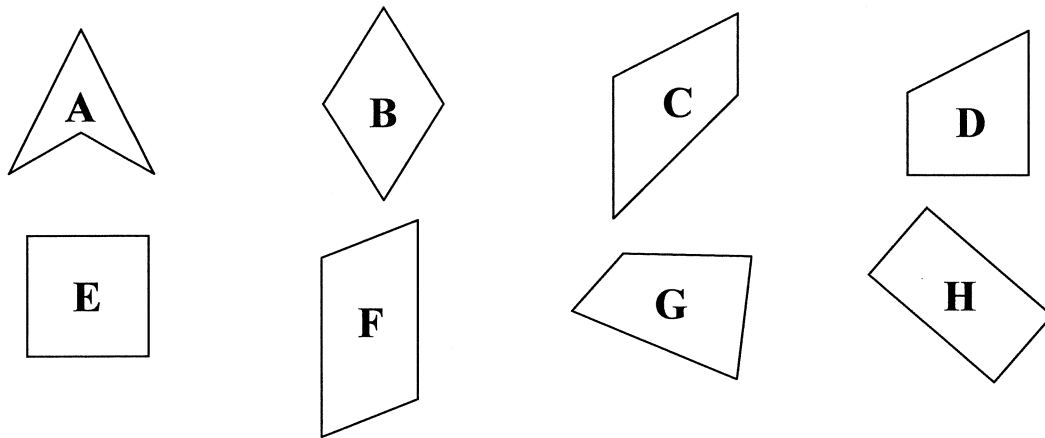
It has _____ faces and
_____ vertices.



33. Which of the following quadrilaterals has two pairs of parallel opposite sides, four equal sides and right angles?

- ☐ A. Trapezium
- ☐ B. Square
- ☐ C. Rectangle
- ☐ D. Rhombus

34.

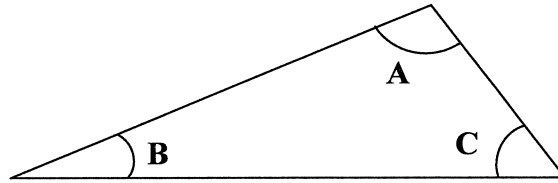


(a) Which of the above shapes has/have four right angles? Write the letter(s) for the answer.

Answer: _____

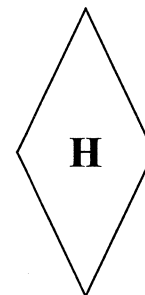
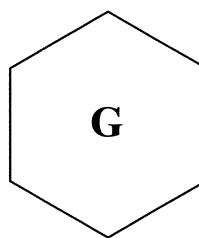
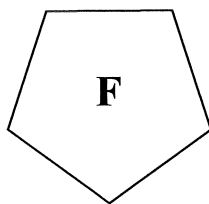
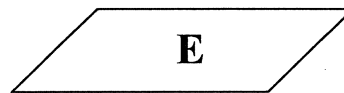
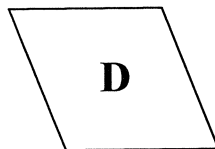
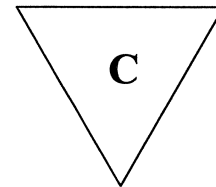
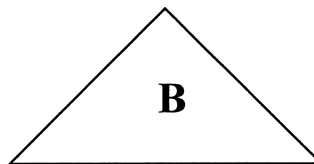
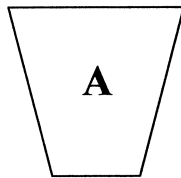
(b) Figure C and Figure D each has * one pair / two pairs of parallel opposite sides (*circle the answer). They are both _____ .

35. Study the following diagram. Arrange the angles in ascending order of size.



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

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



- (a) Rhombus: _____
(b) Hexagon: _____
(c) Equilateral triangle: _____

37. A fruit shop sells apples and oranges. There are x apples.
The number of oranges is 3 less than that of apples.
There are (_____) oranges in the shop.

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

A. $7 = 5 + 4y$

B. $\frac{a - 7}{4}$

C. $40 = 20 \times 2$

D. $3 \times (14 - m) = 4$

E. $6x \div 3$

Answer: _____

39. $19 = 5 + \frac{x}{3}$

$x =$

40. Mum gave $\frac{3}{5}$ of a bag of candies to Tony. Tony ate 4 candies and 41 candies were left. Find the number of candies in the bag originally by **the method of solving equation.**

(Show your working)

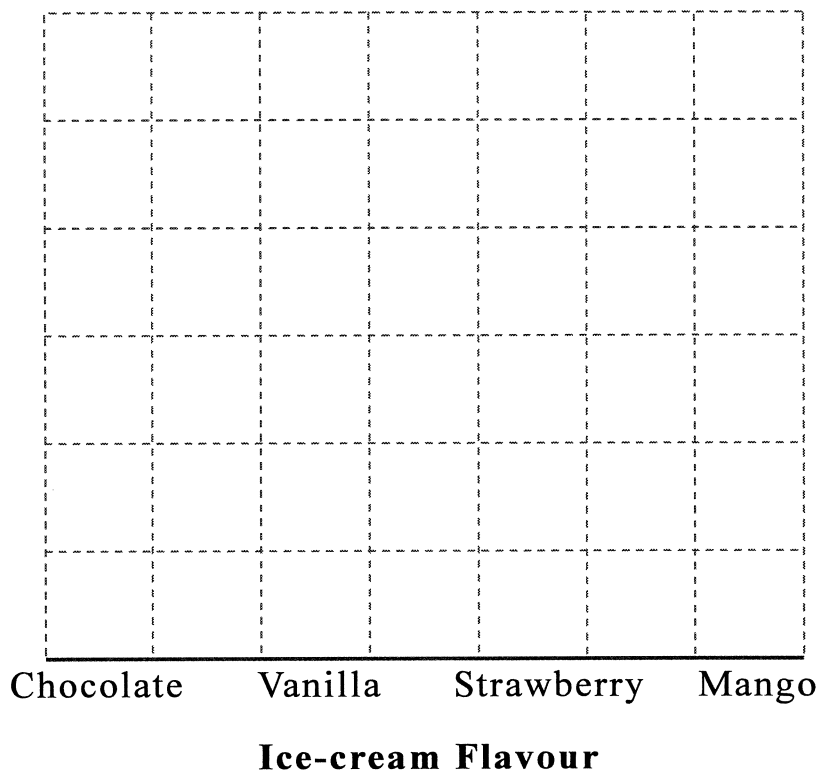
41. A tuckshop gathered data on the students' favourite ice-cream flavours.

Ice-cream flavour	Chocolate	Vanilla	Strawberry	Mango
Number of students	55	32	38	20
Rounded to the nearest tens				

- (a) Round off the number of students to the nearest tens and complete the above table.
- (b) Construct a pictogram with the data rounded to the nearest tens, and give it a suitable title.

(Title)

1  represents 10 students



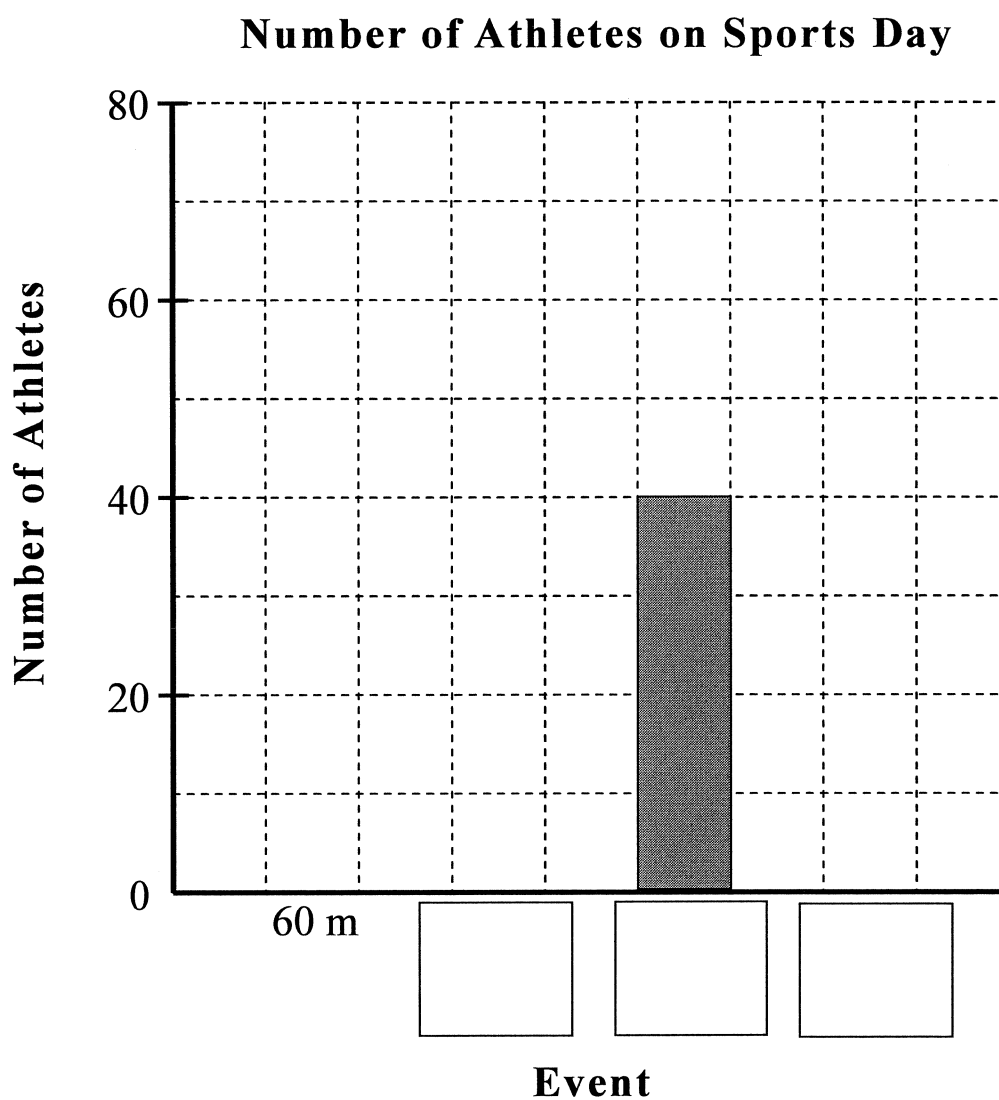
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42. The following table shows the number of athletes on Sports Day.

Event	60 m	100 m	High Jump	Long Jump
Number of athletes	70	30	40	60

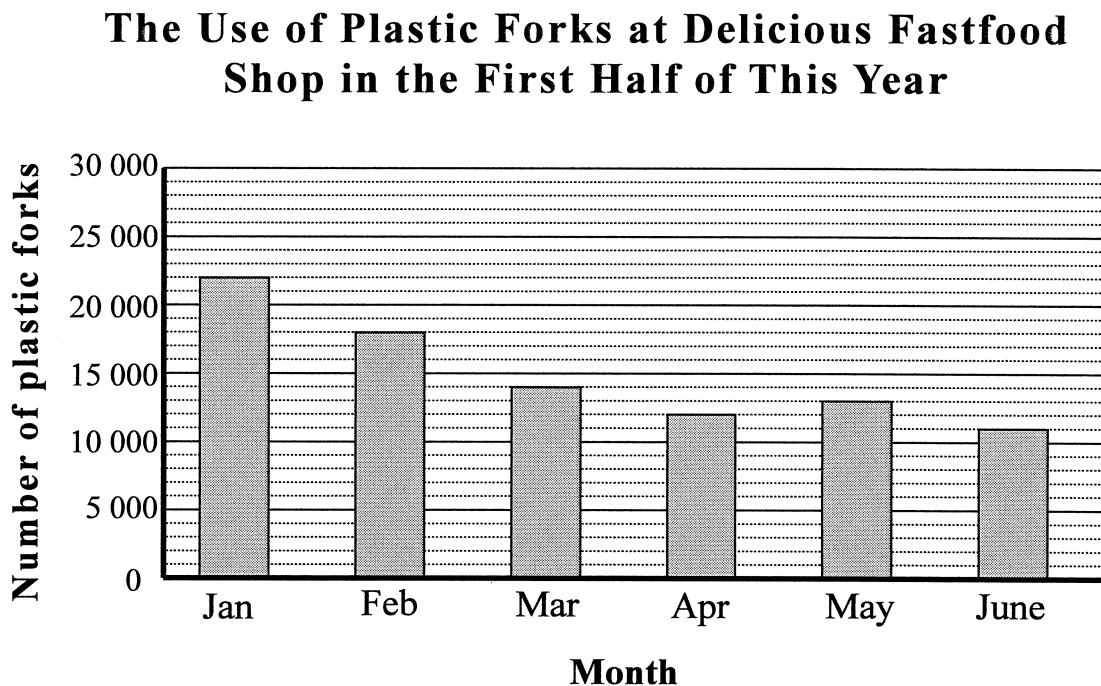
Complete the following bar chart with the data above and fill in the boxes with the correct events.



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43. The following bar chart shows the use of plastic forks at Delicious Fastfood Shop in the first half of this year.



- (a) The month with the highest number of plastic forks used was _____ , and the number was _____ (month) _____ .
- (b) The total number of plastic forks used in the first half of the year was _____ .
- (c) The number of plastic forks used in the first three months was _____ % of the total used in the first half of the year.

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44. Find the average of the following five numbers.

28, 64, 43, 50, 35

Answer: The average is _____ .

— **END OF PAPER** —

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2008-TSA-MATH-6ME4-20