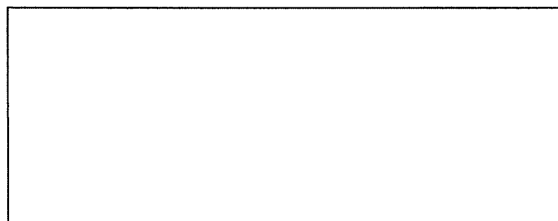


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6 M E 1



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Please stick the barcode label in the box

Education Bureau Territory-wide System Assessment 2009 Primary 6 Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 45 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 margin.
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:

- (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

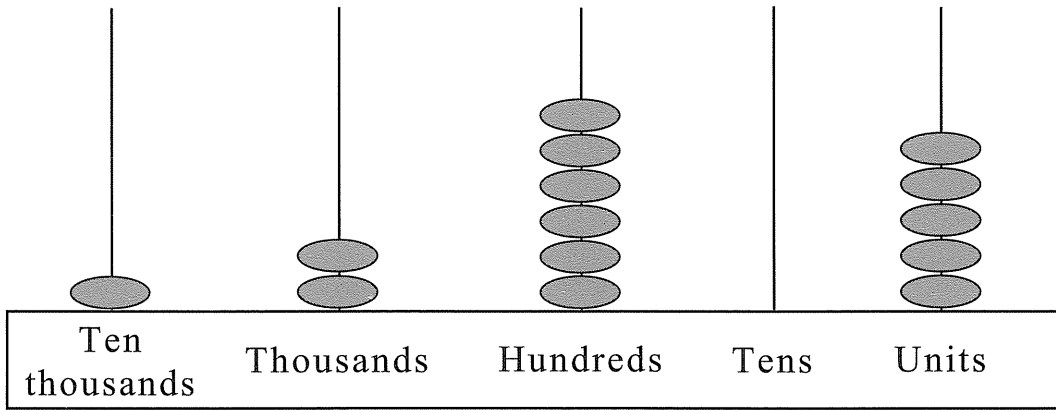
6	
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Class No.
班號

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

1.



The above abacus shows a 5-digit number.

- (a) The digit in the tens place is _____ ;
- (b) The digit in the thousands place stands for a value of _____ .

2. Which of the following numbers is a multiple of 36?

- A. 1
- B. 6
- C. 24
- D. 72

3. List all the factors of 57.

Answer: _____

4. The first common multiple of 5 and 20 is 20.

The third common multiple is _____ .

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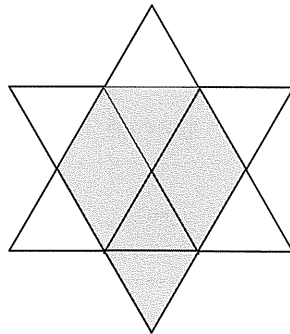


5. The Least Common Multiple (L.C.M.) of 10 and 15
is _____ .

6. Fill in each of the following boxes with the correct
number.

$$\frac{\boxed{}}{5} = 7 = \frac{56}{\boxed{}}$$

7. Express the shaded part as a fraction of the whole figure
below.



Answer: The shaded part is of the whole figure.

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Please do not write in the margin.

8. (a) Change $3\frac{3}{5}$ into an improper fraction.

Answer:

- (b) Change $\frac{55}{8}$ into a mixed number.

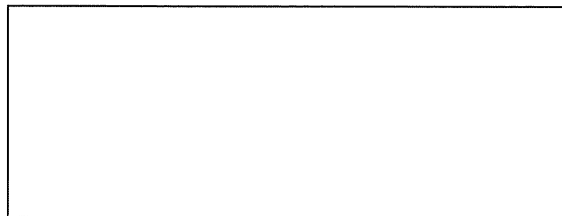
Answer:

9. Which of the following expressions is correct?

- A. $\frac{3}{3} = 3$
- B. $4 > \frac{14}{3}$
- C. $3\frac{1}{3} > \frac{16}{5}$
- D. $2\frac{7}{16} > 2\frac{5}{8}$

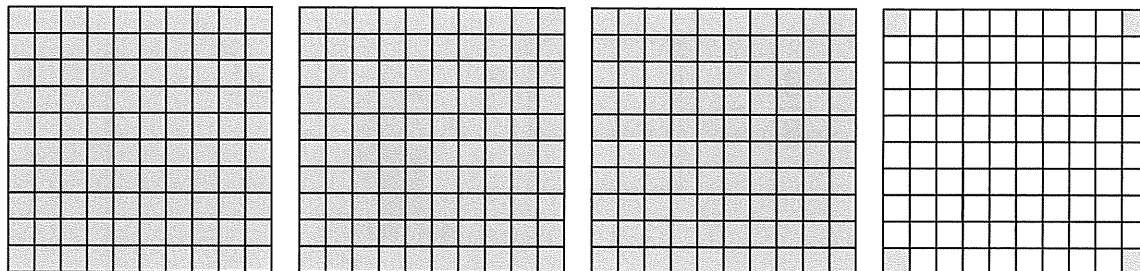
10. $11 \times (27 + 93) =$ _____

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11.



The above diagram shows four large squares. If each large square represents 1, use a decimal to show the shaded part of the above diagram.

Answer: _____

12. In the number 2.315, which digit stands for the smallest value?

- A. '2'
- B. '3'
- C. '1'
- D. '5'

13. $23 + 27 \times 30 =$

- A. 104
- B. 150
- C. 833
- D. 1 500

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14. $3\frac{4}{5} + 2\frac{3}{5} - 4\frac{2}{5} =$

15. $2\frac{4}{9} \div 11 \times \frac{3}{8} =$

16. $12.18 - 2.56 + 3.58 =$ _____

17. $1.4 \times 0.4 \times 2.5 =$ _____

18. Jane has five boxes of books. There are 42 books in each box. She buys a bookcase with seven shelves to hold all the books. How many books on average does each shelf hold?

Answer: Each shelf holds _____ books on average.

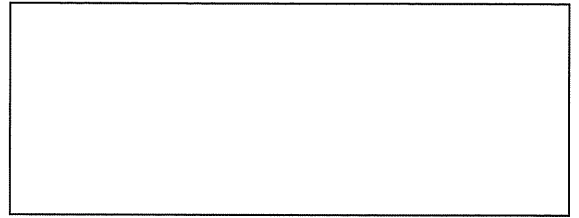
19. Which of the following fractions has its value nearest to 1?

$\frac{6}{7}$, $\frac{7}{8}$, $\frac{8}{9}$

Answer:

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20. Miss Lee has two pieces of luggage. The first piece weighs $3\frac{5}{8}$ kg. The second piece is $1\frac{1}{6}$ kg lighter than the first. What is the total weight of the two pieces of luggage?

(show your working)

Please do not write in the margin.

21.

	<u>Price</u>
Fruit Bun	\$3.60
Sausage Bun	\$5.40
Tuna Bun	\$6.00
Milk	\$6.80

Mother gives Shirley \$12 for breakfast. She wants to buy a box of milk and a bun. What kind of bun can she buy?

Answer: She can buy _____ Bun.

22.

Yummy Restaurant

Wanted: Part-time worker

Work: 4.5 hours a day

Wage: \$50 per hour

Kelvin worked part-time in Yummy Restaurant for four days.

He earned \$ _____ .

23. Jack had \$82.80 and his mother gave him \$60 more. Then he spent \$24.20. How much was left?

(show your working)

24. (a) Change 33% into a decimal.

Answer: _____

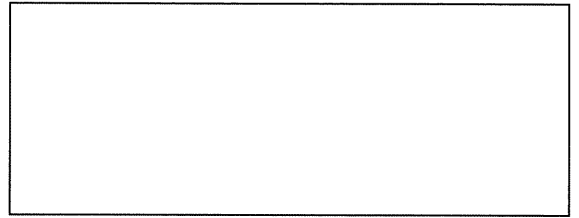
(b) Change 0.005 into a percentage.

Answer: _____ %

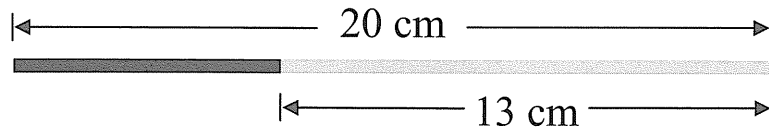
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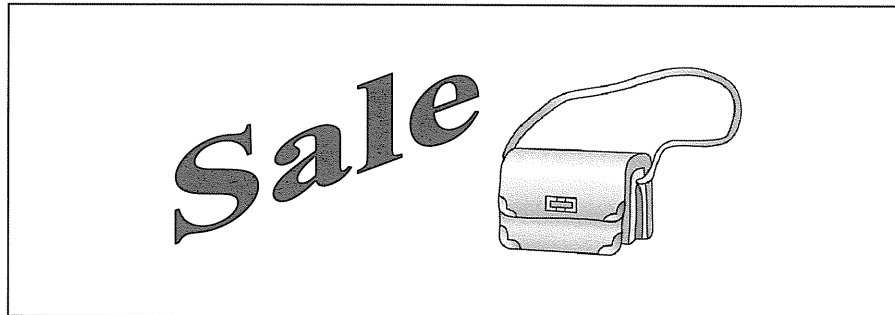
25.



A piece of string is 20 cm long. It has two parts, black and grey in colour. The grey part is 13 cm long. What percentage of the whole piece of string is grey?

Answer: _____ % of the whole piece of string is grey.

26.



The original price of a handbag was \$350. Mother bought the handbag at a special price of \$245. Express the special price as a percentage of the original price of the handbag.

Answer: The special price was _____ % of the original price of the handbag.

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Please do not write in the margin.

27. Fill in each blank below with a suitable unit of capacity.

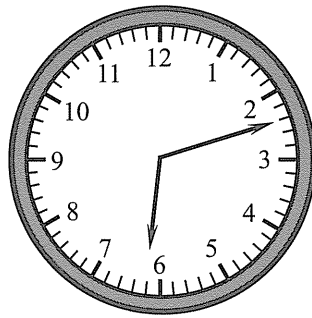
(a) The capacity of an ice cream cup is about

200 _____ .

(b) The capacity of a medicine bottle is about

120 _____ .

28.



(a) The clock showed the time when typhoon signal

No. 8 was issued in the evening. The time

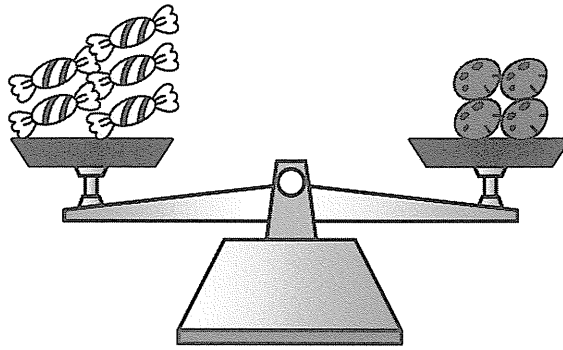
was _____ : _____ * a.m. / p.m. (* circle the answer)

(b) Typhoon signal No. 8 was cancelled 10 hours later.


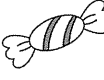
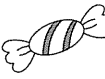




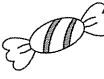
In '24-hour time', the signal was cancelled

at _____ : _____ .

29.



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

- A. The weights of  and  are equal
- B.  is heavier than 
- C.  is heavier than 
- D. The weights of  and  cannot be compared

30. Which of the following is correct?

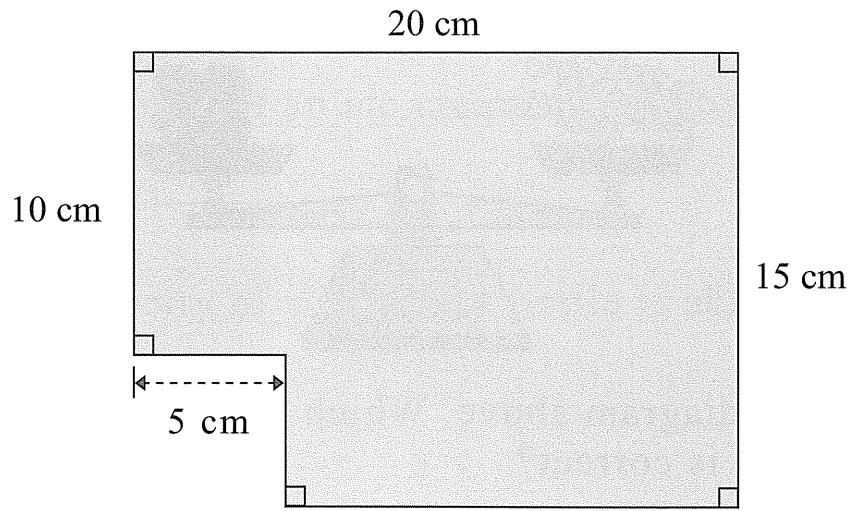
- A. Circumference = Radius $\times \pi$
- B. Circumference = Diameter $\times \pi$
- C. Circumference = Radius $\div \pi$
- D. Circumference = Diameter $\div \pi$

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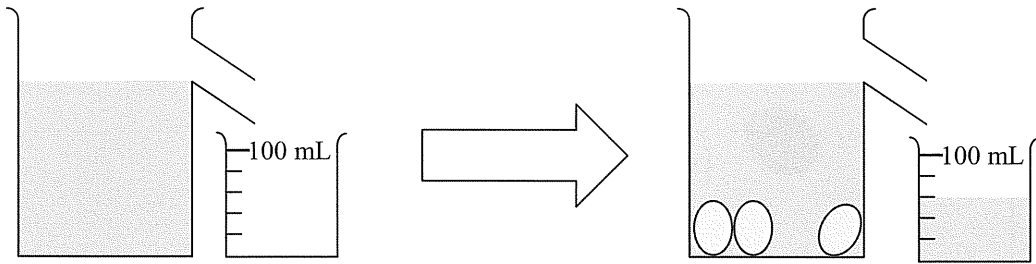
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31.



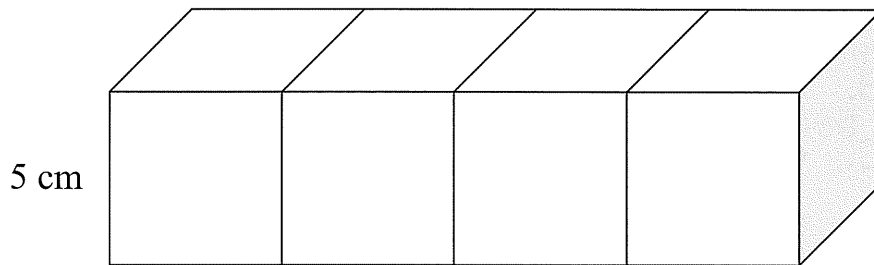
The area of the diagram above is _____ cm^2 .

32.



According to the diagram above, the volume of each \bigcirc is _____ cm^3 .

33.



The cuboid above is made up of four cubes. The volume of the cuboid is _____. (give the answer with a unit)

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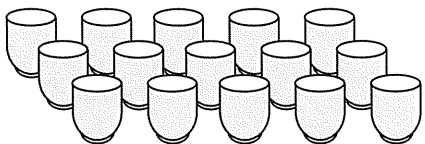

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34. The distance between a park and a swimming pool is 2400 m. Jason started cycling at 11:55 a.m. from the park and reached the swimming pool at 12:15 p.m.



(a) Jason cycled for _____ minutes.

(b) What was Jason's average cycling speed?
(show your working)

35.

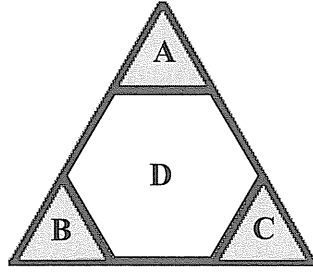
 of water can fill up  ;

 of water can fill up  ;

So,  of water can fill up _____ .

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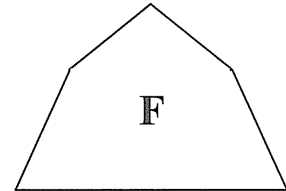
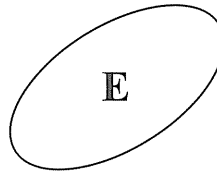
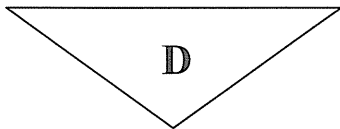
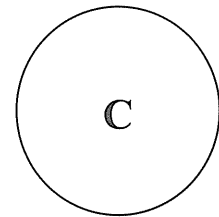
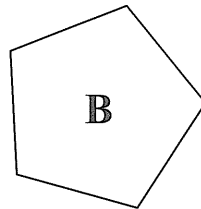
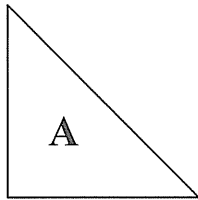
36.



The big triangle above is made up of four shapes A, B, C and D with equal sides.

- (a) Shape D is a _____ .
- (b) The big triangle is a/an * isosceles / equilateral / right-angled triangle. (* circle the answer)

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

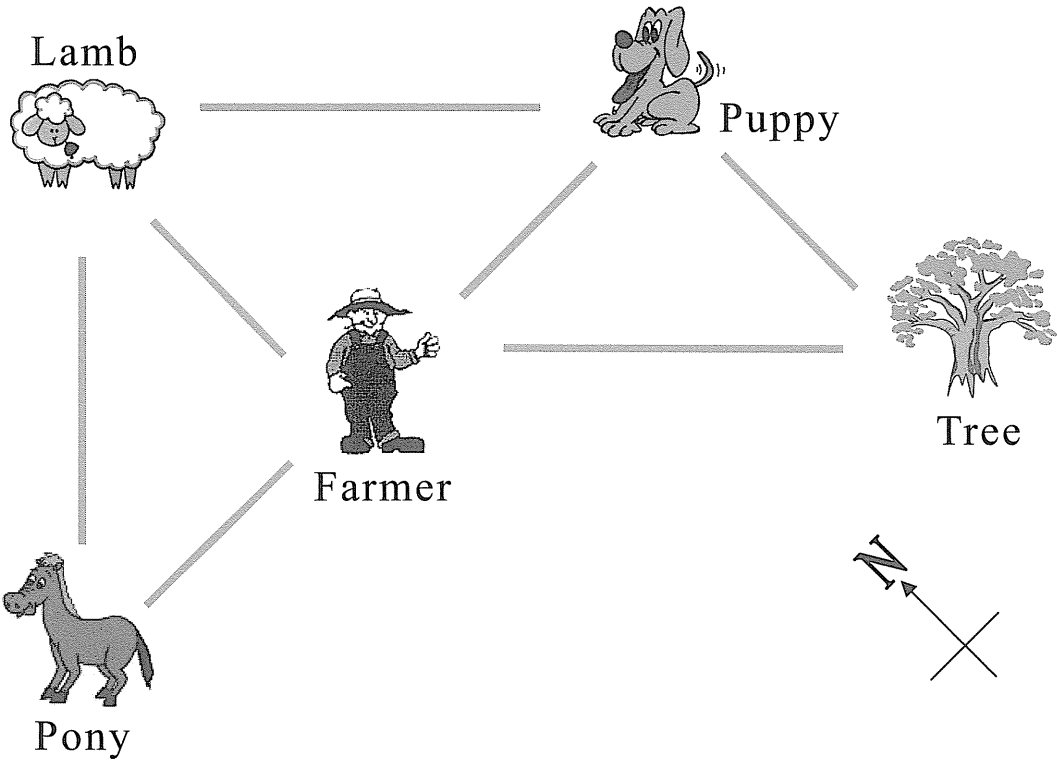


- (a) Circle: _____
- (b) Pentagon: _____
- (c) Isosceles triangle: _____

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38.



- (a) The Tree is to the _____ of the Puppy.
(direction)
- (b) The Farmer goes _____ to the Tree.
(direction)
- (c) The Pony is to the south-west of the _____ .

39. The cost of a ruler is \$ A and the cost of a notebook is \$8.
Mr Chan buys five rulers and one notebook. He has to pay
\$(_____).

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40. $30x = 20$

$x =$

41. $4n + 2\frac{2}{5} = 4$

$n =$

42. Mr Yip has bought 10 pieces of cake with three cash coupons and \$25. Each piece of cake costs \$4. Find the value of each cash coupon by the method of solving equation.

(show your working)

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Please do not write in the margin.

43. The following table shows the sales of different types of flowers at a florist yesterday.

(a) Round off the number of flowers sold to the nearest tens and complete the table below.

Types of Flowers	Rose	Tulip	Carnation	Lily
Number of flowers sold	60	9	25	22
Rounded to the nearest tens				

(b) Round off the number of flowers sold to the nearest hundreds and complete the table below.

Types of Flowers	Rose	Tulip	Carnation	Lily
Number of flowers sold	60	9	25	22
Rounded to the nearest hundreds				

(c) If you construct a pictogram according to the following data, would you choose “Each picture represents 100 flowers”? Why?

Types of Flowers	Rose	Tulip	Carnation	Lily
Number of flowers sold	60	9	25	22

Answer: * Yes / No (* circle the answer). This is because

_____ .

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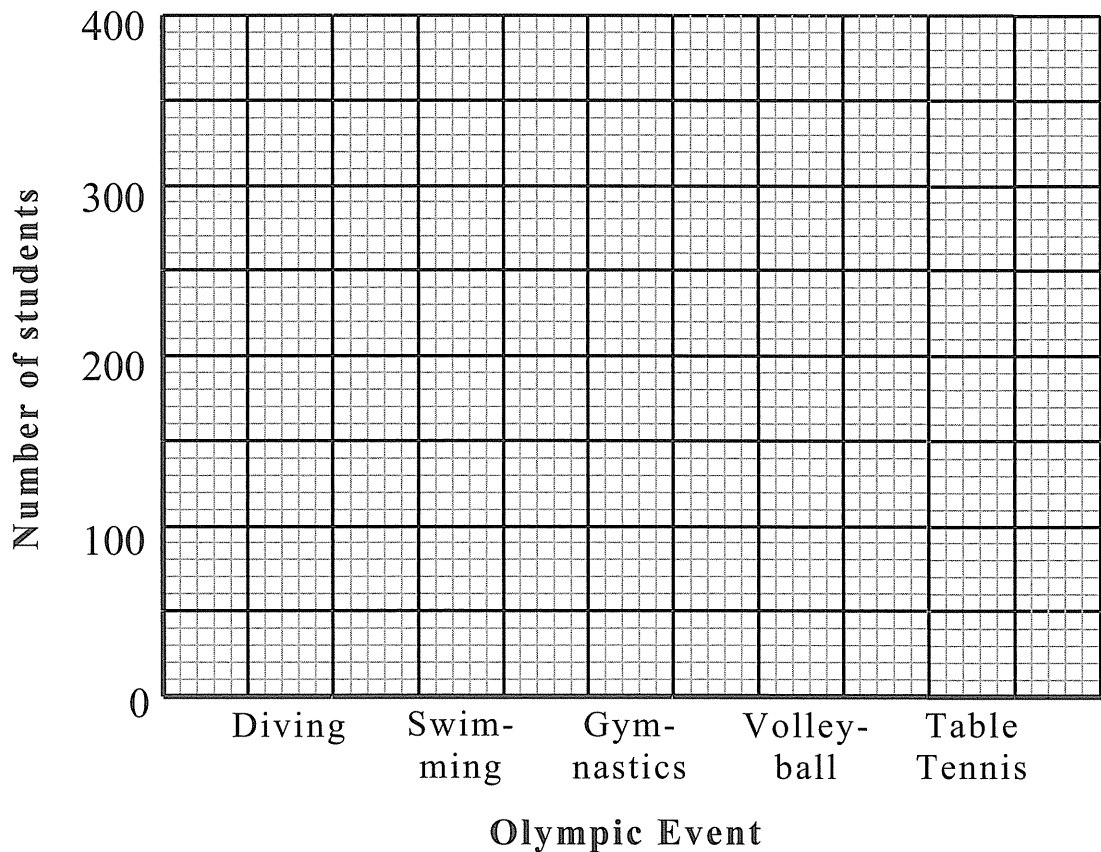
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44. The following table shows the favourite Olympic events of the students.

Event	Diving	Swim- ming	Gym- nastics	Volley- ball	Table Tennis
Number of students	342	206	168	381	275
Rounded to the nearest tens					

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

(Title)



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45. Find the average of the following four numbers.

12.4, 14.6, 0, 5

Answer: The average is _____ .

— END OF PAPER —

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2009-TSA-MATH-6ME1-20