* 6 M E 2 *

6	M	E	2

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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 42 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				**Class** 班別	6		**Class No.** 班號		

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

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1. Which of the following numbers has the digit '0' in its thousands place?

   ○ A. 12 340
   ○ B. 12 304
   ○ C. 12 034
   ○ D. 10 234

2. Which of the following numbers is a multiple of 15?

   ○ A. 5
   ○ B. 10
   ○ C. 35
   ○ D. 60

3. List all the factors of 44.

   Answer: _____

4. The Highest Common Factor (H.C.F.) of 18 and 48

   is _____ .

5. Fill in the box with the correct number.

$$\frac{\square}{7} = 1$$

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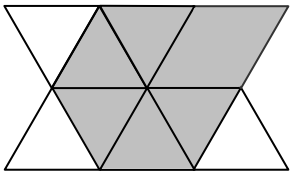
6. The first common multiple of 6 and 10 is 30.

Which of the following numbers is their third common multiple?

- ○ A. 45
- ○ B. 60
- ○ C. 75
- ○ D. 90

7. What fraction of the whole figure is shaded?



Answer: ☐ of the whole figure is shaded.

8. (a) Change $2\frac{3}{8}$ into an improper fraction.

Answer: ☐

(b) Change $\frac{63}{5}$ into a mixed number.

Answer: ☐

9. Which of the following fractions is the smallest?

$\frac{4}{11}$, $\frac{8}{11}$, $\frac{4}{15}$

Answer: ☐

10. Change $\frac{5}{18}$ into a decimal correct to two decimal places.

Answer: ☐

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11. In the number 1.396, which digit stands for the smallest value?

○ A. '9'
○ B. '6'
○ C. '3'
○ D. '1'

12. $34 \times (12 + 48) =$ _____

13. $3\frac{1}{6} - \frac{2}{9} =$ ☐

14. $\frac{2}{5} \div 4 \times 1\frac{1}{9} =$ ☐

15. $36.4 + 3.6 - 8.45 =$ _____

16. $1.1 \times 5 \times 3.4 =$ _____

17. The school's tuck shop ordered 62 cartons of biscuits.
Each carton of biscuits weighs $1\frac{1}{4}$ kg.

The total weight is _____ kg.

18. Polly divided $500 equally among her four sons. The eldest son then bought a storybook for $96. How much has he left?
(Show your working)

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

Answer: _____ %

(b) Change 95% into a fraction in its simplest form.

Answer:

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20. The original amount on Gloria's stored value card was $20.10. She spent $5.30 on transport. Then she added a value of $50. How much is on her card now?

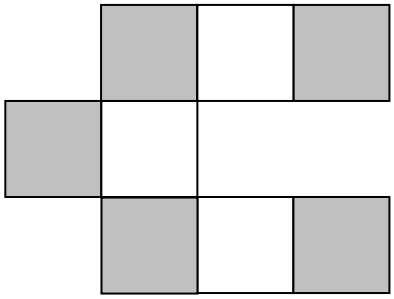
Answer: $ _____ is on her card now.

21. 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

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



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

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23.

The total weight of tea leaves and the can is 250 g. The weight of tea leaves is 200 g.

(a) The weight of tea leaves is _____ % of the total weight.

(b) Jenny buys a can of tea leaves at 35% off.
How much should she pay?

(Show your working)

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24. There is dirt on the November calendar.

November						
Sunday	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**	**Saturday**
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	[illegible]		

(a) The 30th of October is _____ .
(day of a week)

(b) The school 'Mathematics Week' starts on the fourth Monday of November.

That day is the _____ of _____ .
(month)

(c) The 'Mathematics Week' lasts for 5 days.

It will end on the _____ of _____ .
(month)

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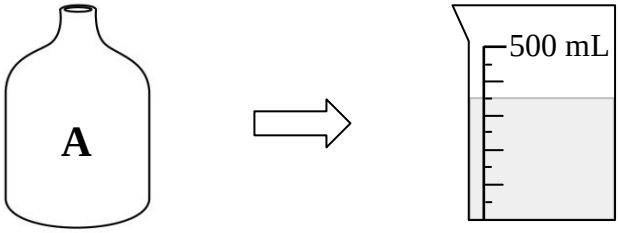
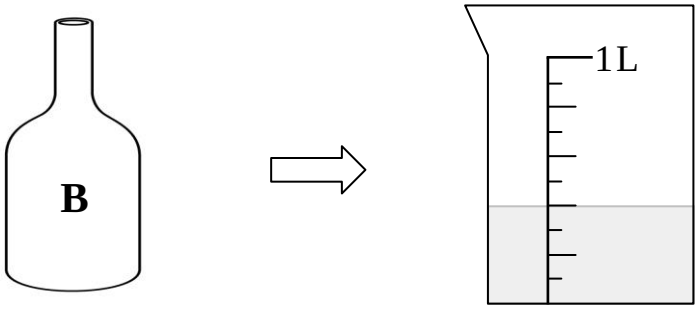
25. (a) Fill up Bottle A with water. Then pour all the water into a beaker.



The capacity of Bottle A is _____ mL.

(b) Fill up Bottle B with water. Then pour all the water into a beaker.



The capacity of Bottle B is _____ L.

(c) The capacity of Bottle A is

* larger than / equal to / smaller than

the capacity of Bottle B. (* Circle the answer)

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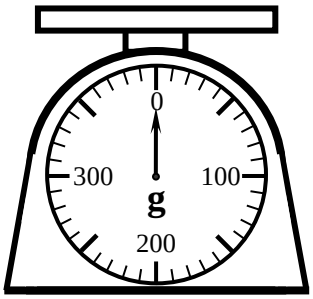
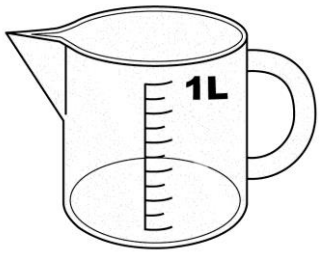
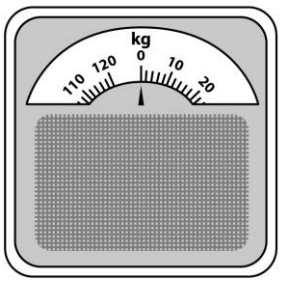
26. Which of the following tools is most suitable for measuring the weight of a cup of yogurt?



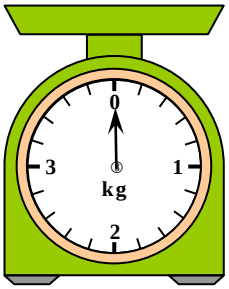
○ A.



○ B.

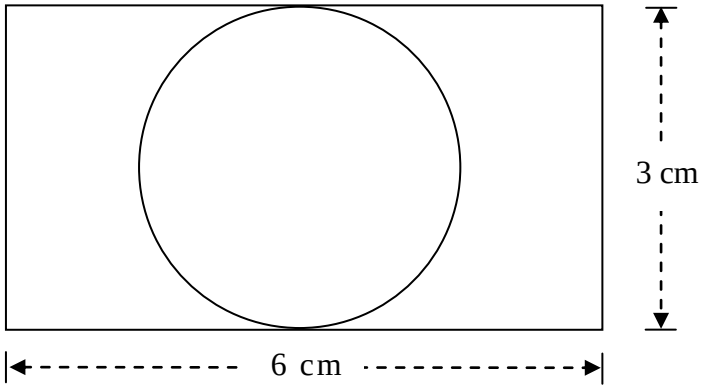


○ C.



○ D.

27.

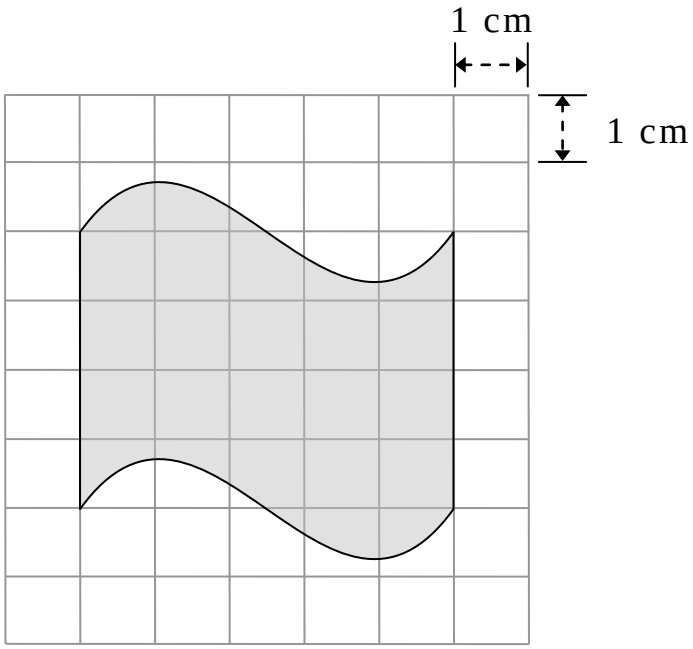


Nancy draws a circle in a rectangle as shown above.

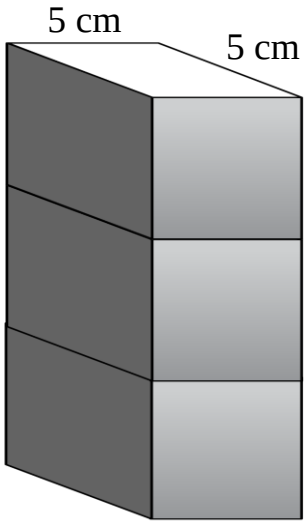
The circumference is about _____ cm.
(Give your answer as a whole number)

28. In the diagram below, the side of each small square is 1 cm. The area of the shaded part is about _____ cm^2.

(Give the answer as a whole number)



29.



The solid above is made up of 3 cubes equal in size.

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

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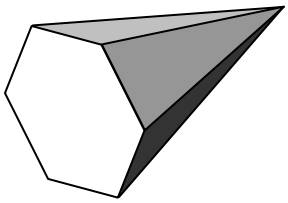
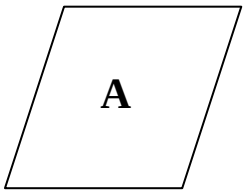
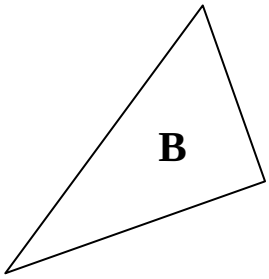
30. The average cycling speed of Polly is about 15 _____ . (Write a suitable unit)

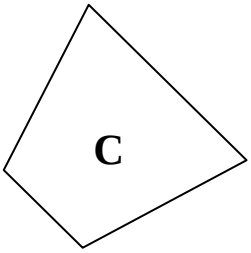
31. 

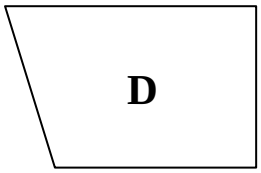
The 3-D shape above has _____ vertices and _____ faces.

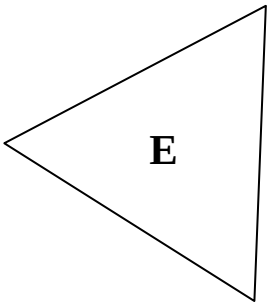
32. Study the 2-D shapes below. Write the letter(s) for the answer.

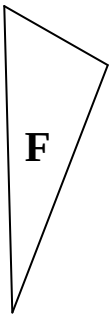












(a) Trapezium: _____

(b) Equilateral triangle: _____

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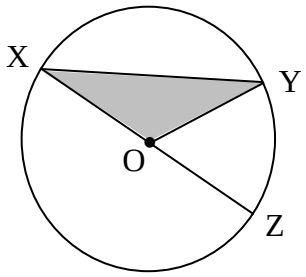
33. In the figure below, O is the centre.



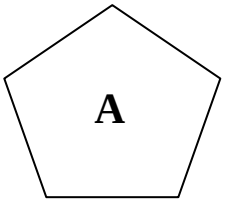
(a) OY is the _____ of the circle.

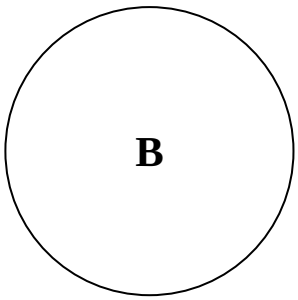
(b) The shaded part in the figure is

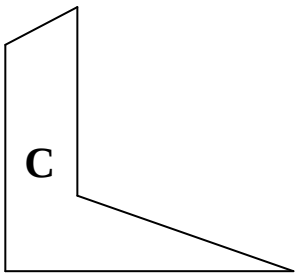
* an equilateral / a right-angled / an isosceles triangle.

(* Circle the answer)

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







Circle: _____

Pentagon: _____

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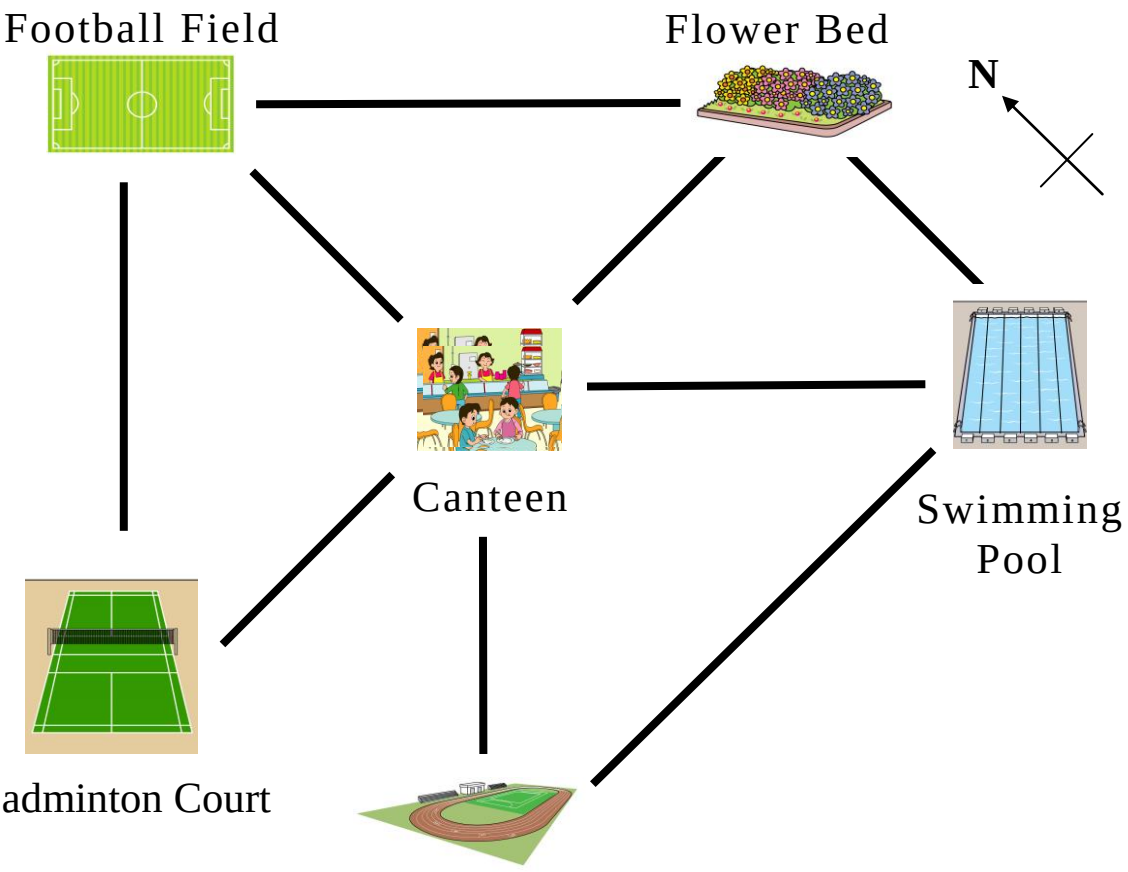
35. **Map of Sports City**



(a) Sports Ground is to the _____ of Canteen.
(direction)

(b) If Tom goes east from Canteen, he will arrive at

- ○ A. Swimming Pool.
- ○ B. Flower Bed.
- ○ C. Football Field.
- ○ D. Badminton Court.

36. $55 = x - 20$

$x =$ ☐

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37. A fast food shop has M employees. One-eighth of them are cashiers. How many cashiers are there?

- ○ A. $\frac{8}{M}$
- ○ B. $8M$
- ○ C. $\frac{M}{8}$
- ○ D. $\frac{1}{8M}$

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

$y =$ ☐

39. The sum of a number and 12 is multiplied by 5. The result is equal to 160.
Find the number by ***the method of solving an equation***.
(Show your working)

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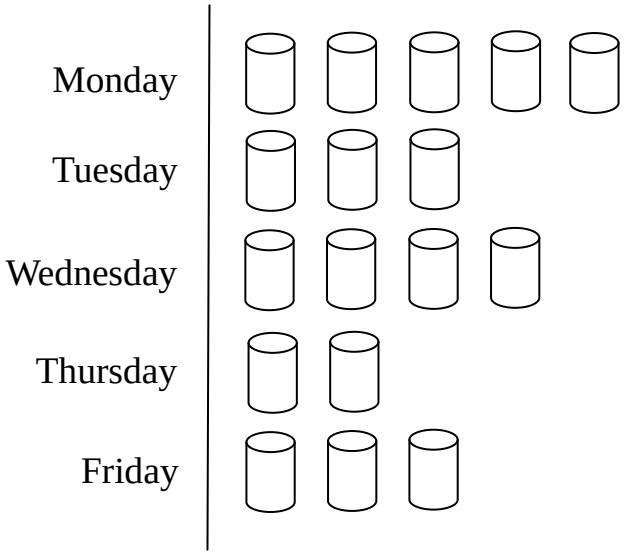
40. Class 6A held the 'Can Recycling' activity last week. They counted the number of cans collected and constructed the pictogram below.

Number of Cans Collected by Class 6A Last Week

Each stands for 10 cans



(a) The number of cans collected on Thursday was _____ .

(b) Most cans were collected on _____ (day of a week) and the number of cans collected was _____ .

(c) In the 'Can Recycling' activity, _____ cans were collected altogether.

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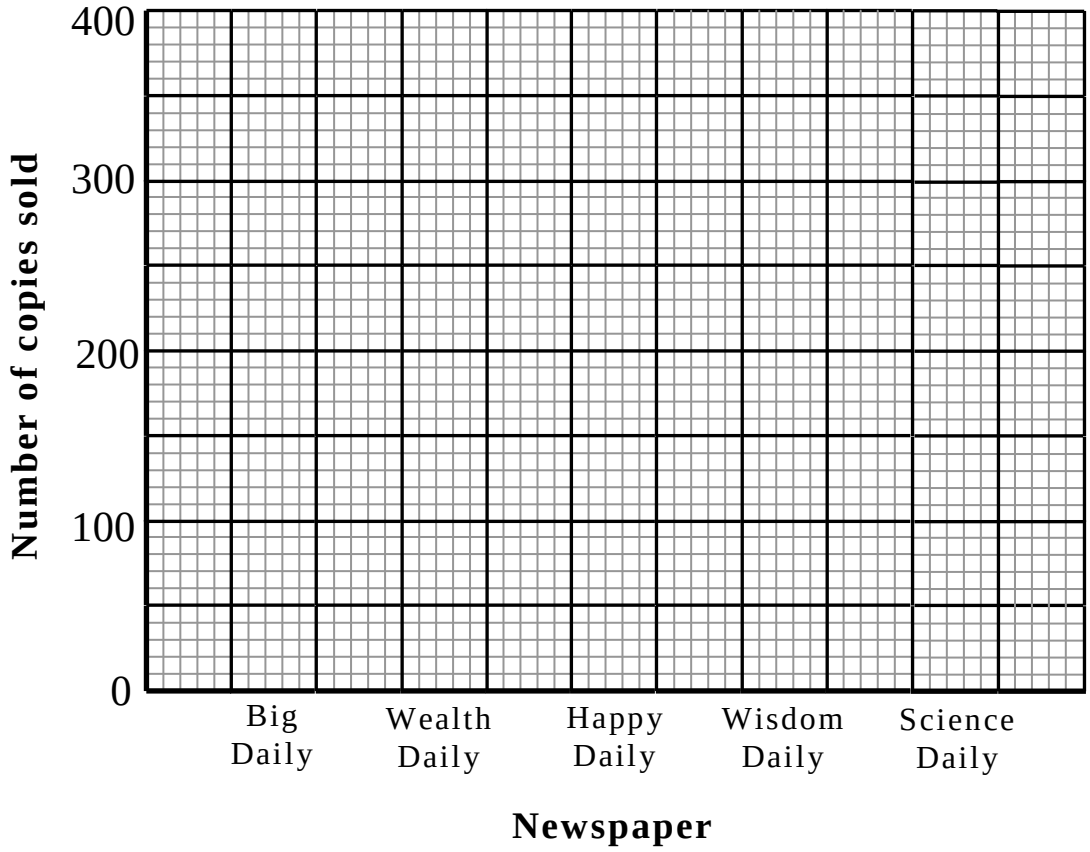
41. The following shows the number of copies of newspapers sold at a newsstand last week.

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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42. Find the average of the five numbers below.

$$20 \quad , \quad 19.5 \quad , \quad 100 \quad , \quad 10\frac{1}{2} \quad , \quad 100$$

Answer: The average is _____ .

— END OF PAPER —

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2013-TSA-MATH-6ME2-20