



**Mahz Bodhi School**  
**2006 Semestral Assessment 2**  
**Mathematics**

Name : \_\_\_\_\_ ( )

Date : 25 October 2006

Class : Pr 3 \_\_\_\_\_

Duration : 1 h 45 min

**BOOKLET A**

**Section A : (40 marks)**

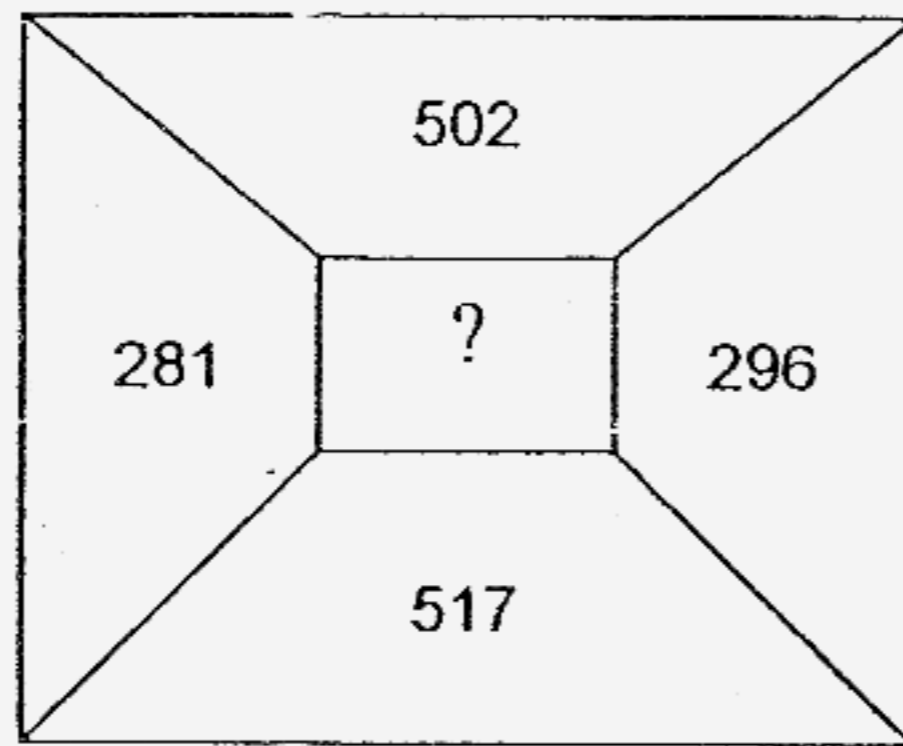
Questions 1 – 20 carry 2 marks each.

For each question, four options are given. One of them is the correct answer.

Make your choice (1, 2, 3 or 4) and shade the number in the corresponding oval on the OAS.

1. In 2658, the value of the digit 6 is \_\_\_\_\_.  
  - (1) 6
  - (2) 60
  - (3) 600
  - (4) 6000
  
2. How many tens are there in the quotient  $680 \div 4$ ?  
  - (1) 17
  - (2) 27
  - (3) 170
  - (4) 270
  
3. A mini van can take up to 8 passengers.  
What is the least number of mini vans needed for 258 passengers?  
  - (1) 30
  - (2) 31
  - (3) 32
  - (4) 33

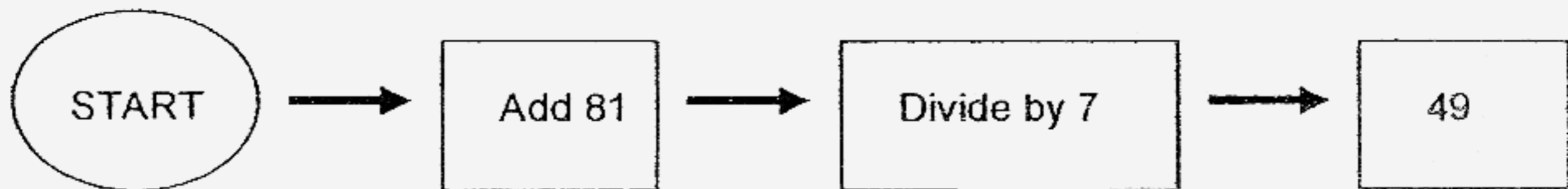
4.



Find the missing number in the box.

- (1) 15
- (2) 30
- (3) 150
- (4) 300

5. What is the missing number in the 'START' circle?



- (1) 74
- (2) 88
- (3) 262
- (4) 424

6.

$$\begin{aligned} \diamond + \diamond + \diamond + \diamond &= 128 \\ \heartsuit + \heartsuit + \heartsuit + \heartsuit + \heartsuit + \heartsuit &= 42 \end{aligned}$$

Find the difference between  $\diamond$  and  $\heartsuit$ .

- (1) 25
- (2) 86
- (3) 170
- (4) 260

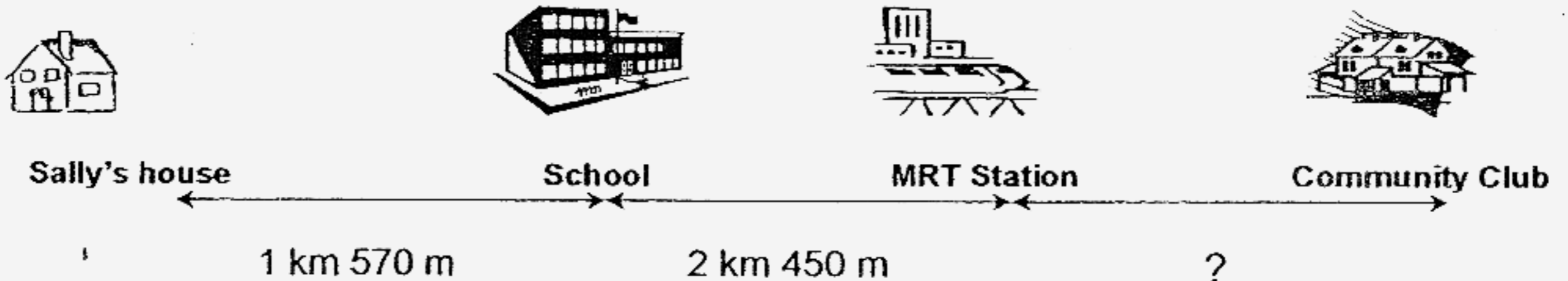
7. Mrs Lee bought a chicken for \$3.80 and a duck for \$5.60. She had \$10.80 left. How much did she have at first?

- (1) \$9.40
- (2) \$14.60
- (3) \$19.20
- (4) \$20.20

8. One watch and 3 bags cost \$297. One watch and one bag cost \$137. If the watches and bags are all similar, find the cost of one bag.

- (1) \$40
- (2) \$80
- (3) \$160
- (4) \$434

9.



The Community Club is 8 km 800 m from Sally's house.  
Find the distance between the MRT station and the Community Club.

- (1) 4 km 20 m
- (2) 4 km 780 m
- (3) 7 km 230 m
- (4) 12 km 820 m

10. Mei Ling cut a piece of ribbon into 5 pieces. One piece was 20 cm long. Each of the remaining pieces was 26 cm long. How long was the ribbon at first?

- (1) 51 cm
- (2) 124 cm
- (3) 126 cm
- (4) 150 cm

11. Hazel bought a 2-kg chocolate cake. She cut it into 8 equal pieces. What was the mass of 3 pieces of the cake?
- (1) 250 g
  - (2) 550 g
  - (3) 750 g
  - (4) 850 g
12. Mrs Wong is 4 times as heavy as her daughter. If Mrs Wong weighs 56 kg, find the mass of her daughter.
- (1) 10 kg
  - (2) 13 kg
  - (3) 14 kg
  - (4) 52 kg

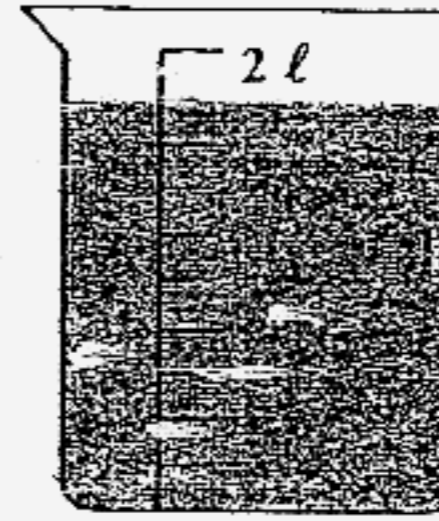
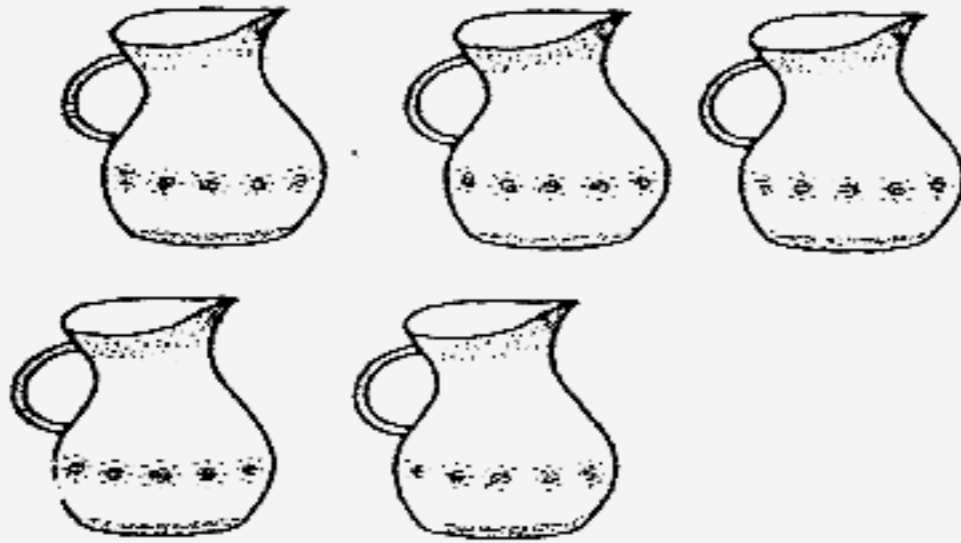
13.

Containers	Capacity
P	2050 ml
Q	1950 ml
R	2101 ml
S	2073 ml

The table shows the capacities of four containers. Which container has the greatest capacity?

- (1) P
- (2) Q
- (3) R
- (4) S

14. The water in Container Y can fill up 5 similar jugs.  
What is the capacity of each jug?



Container Y

- (1) 60 ml  
(2) 160 ml  
(3) 260 ml  
(4) 360 ml
15. What is  $\frac{8}{12}$  in its simplest form?

- (1)  $\frac{1}{3}$   
(2)  $\frac{2}{3}$   
(3)  $\frac{1}{6}$   
(4)  $\frac{4}{6}$

16.  $x - \frac{3}{5} = \frac{\square}{10}$

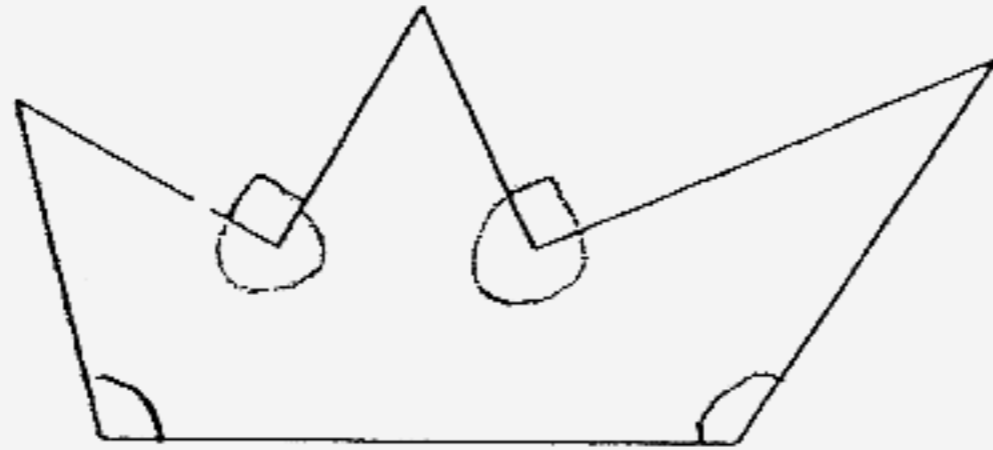
What is the missing number in the box?

- (1) 5  
(2) 2  
(3) 10  
(4) 4
17. A clock is 45 minutes slower than the actual time. The clock is showing 11.20 p.m.  
What is the actual time?
- (1) 10.35 p.m.  
(2) 10.35 a.m.  
(3) 12.05 p.m.  
(4) 12.05 a.m.

18. The length of a rectangular pool is 3 times its width. If the perimeter of the pool is 144 m, find the length of the pool.

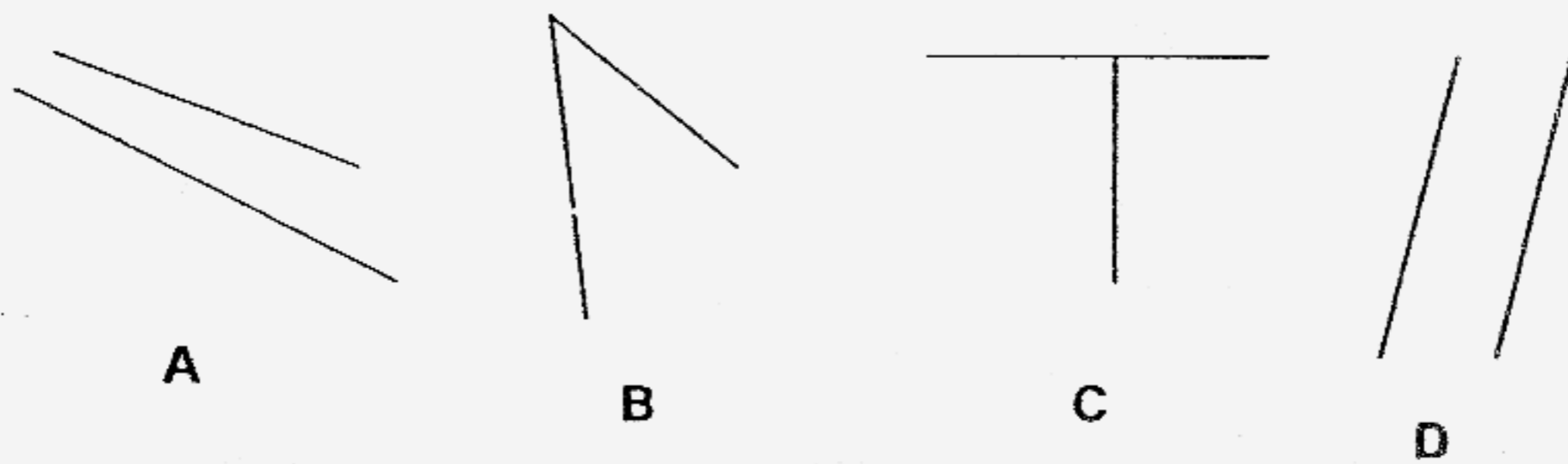
- (1) 18 m
- (2) 54 m
- (3) 141 m
- (4) 147m

19. How many angles inside the figure are **greater** than a right angle?



- (1) 8
- (2) 6
- (3) 3
- (4) 4

20. Which of the following pairs of lines are parallel?



- (1) A
- (2) B
- (3) C
- (4) D



Maha Bodhi School  
2006 Semestral Assessment 2

Mathematics

Name : \_\_\_\_\_ ( )

Class : Pr 3 \_\_\_\_\_

Duration : 1 h 45 min

Date : 25 October 2006

Parent's Signature : \_\_\_\_\_

Section A ( 40 marks )	
Section B ( 40 marks )	
Section C ( 20 marks )	
Total ( 100 marks )	

**BOOKLET B**

**Section B: (40 marks)**

Each question from 21 – 40 carries 2 marks each.

Write your answer in the **SPACES** provided.

Give your answers in the units stated.

21. Write 5 thousand, 6 tens and 4 ones in numerals.

Ans: \_\_\_\_\_

22. Charlene has 409 story books. She has 213 more story books than Jarran.  
How many storybooks do they have altogether ?

Ans: \_\_\_\_\_ storybooks

23.  $34 \times 19 = 19 \times 2 \times \square$

The missing number in the box is \_\_\_\_\_.

Ans: \_\_\_\_\_

24. If 2 apples costs \$0.90, find the cost of 18 such apples.

Ans: \$ \_\_\_\_\_

25. Bryan has some ten-cent coins, twenty-cent coins and fifty-cent coins. He has \$2.20 altogether. If he has four twenty-cent coins, how many ten-cent and fifty-cent coins does he have ?

Ans: \_\_\_\_\_ ten-cent coins

Ans: \_\_\_\_\_ fifty-cent coins

26. 2 mangoes cost as much as 3 oranges. If the total cost of 2 mangoes and 3 oranges is \$2, find the cost of 12 oranges.

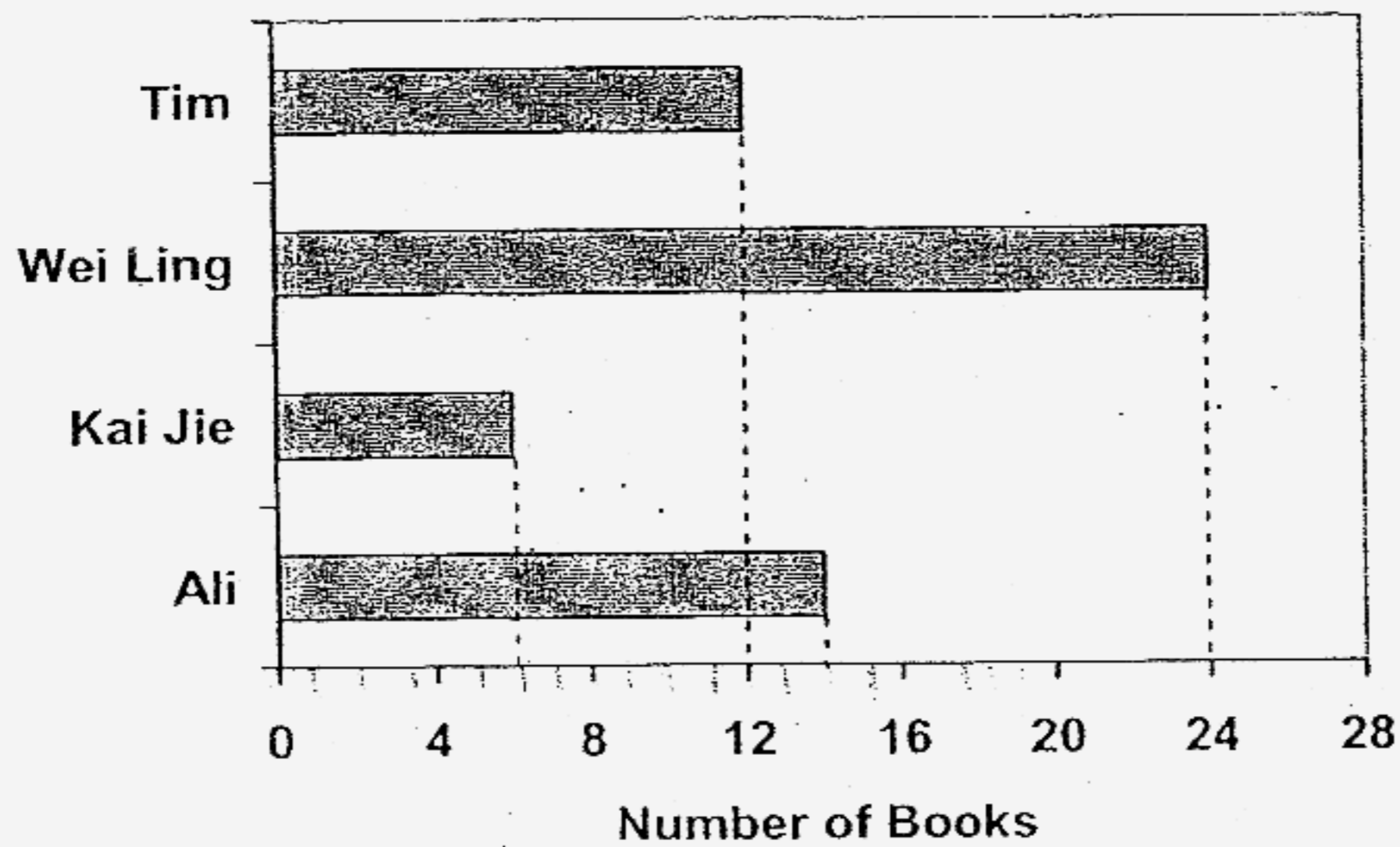
Ans: \$ \_\_\_\_\_

27. 12 l 5 ml = \_\_\_\_\_ ml

Ans: \_\_\_\_\_ ml



Study the bar graph and answer Questions 28 and 29.  
The bar graph below shows the number of books owned by four children.



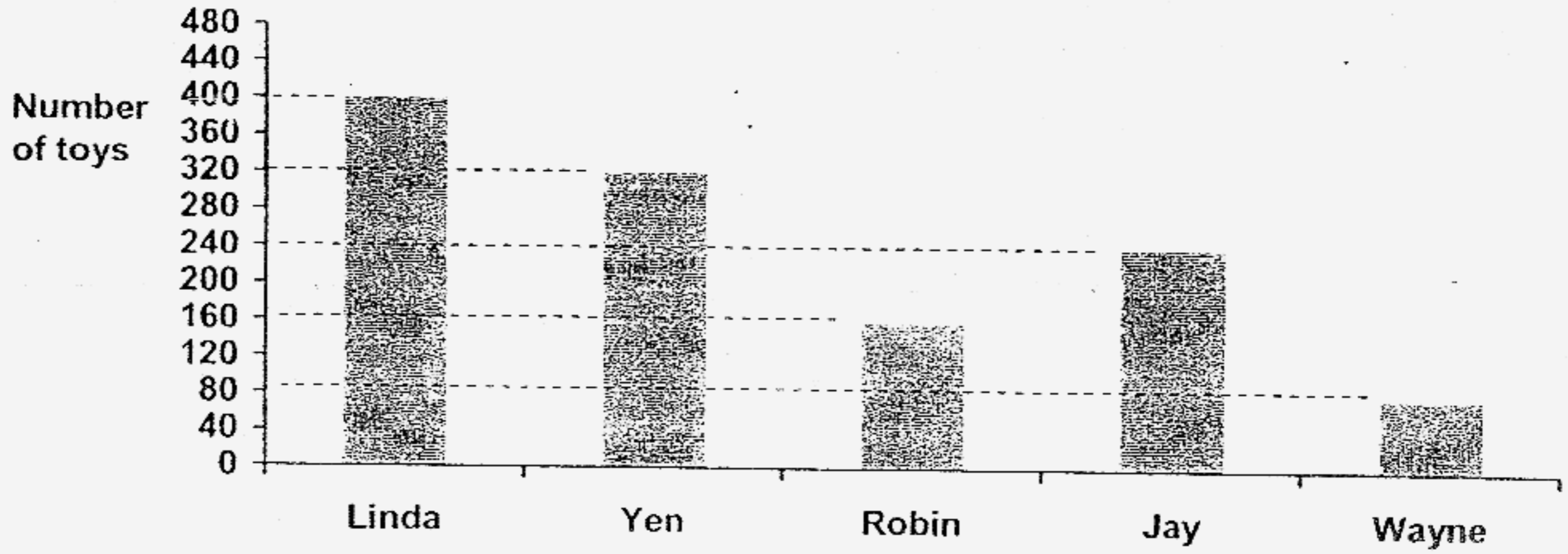
28. Who has twice as many books as Tim?

Ans: \_\_\_\_\_

29. How many books must Wei Ling give to Kai Jie so that they each have an **equal** number of books?

Ans: \_\_\_\_\_ books

Study the graph below and answer questions 30 and 31.  
The graph below shows the number of toys five children have.



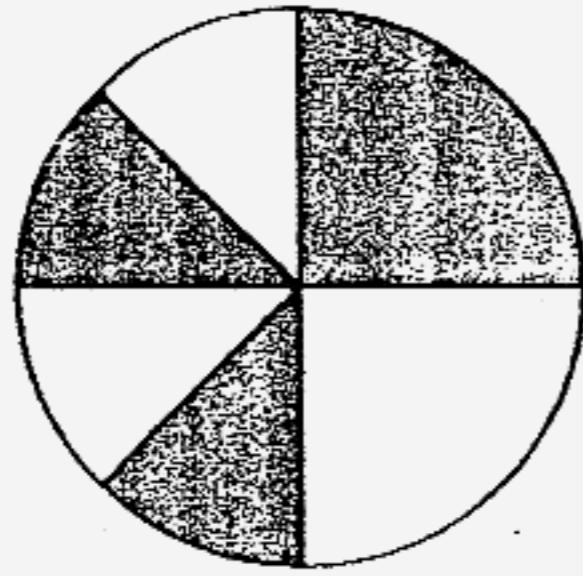
30. How many toys do Yen, Robin and Jay have altogether?

Ans: \_\_\_\_\_ toys

31. If Linda gives some toys to Wayne, they will both have an equal number of toys. Which one of the 5 children has the most number of toys after that?

Ans: \_\_\_\_\_

32. What fraction of the figure is shaded?



Ans: \_\_\_\_\_

33.  $\frac{6}{10} = \frac{9}{\square}$

The missing number in the box is \_\_\_\_\_.

Ans: \_\_\_\_\_

34. Arrange the following fractions from the greatest to the smallest

$$\frac{5}{12}, \quad \frac{5}{6}, \quad \frac{5}{8}, \quad \frac{5}{10}$$

Ans : \_\_\_\_\_

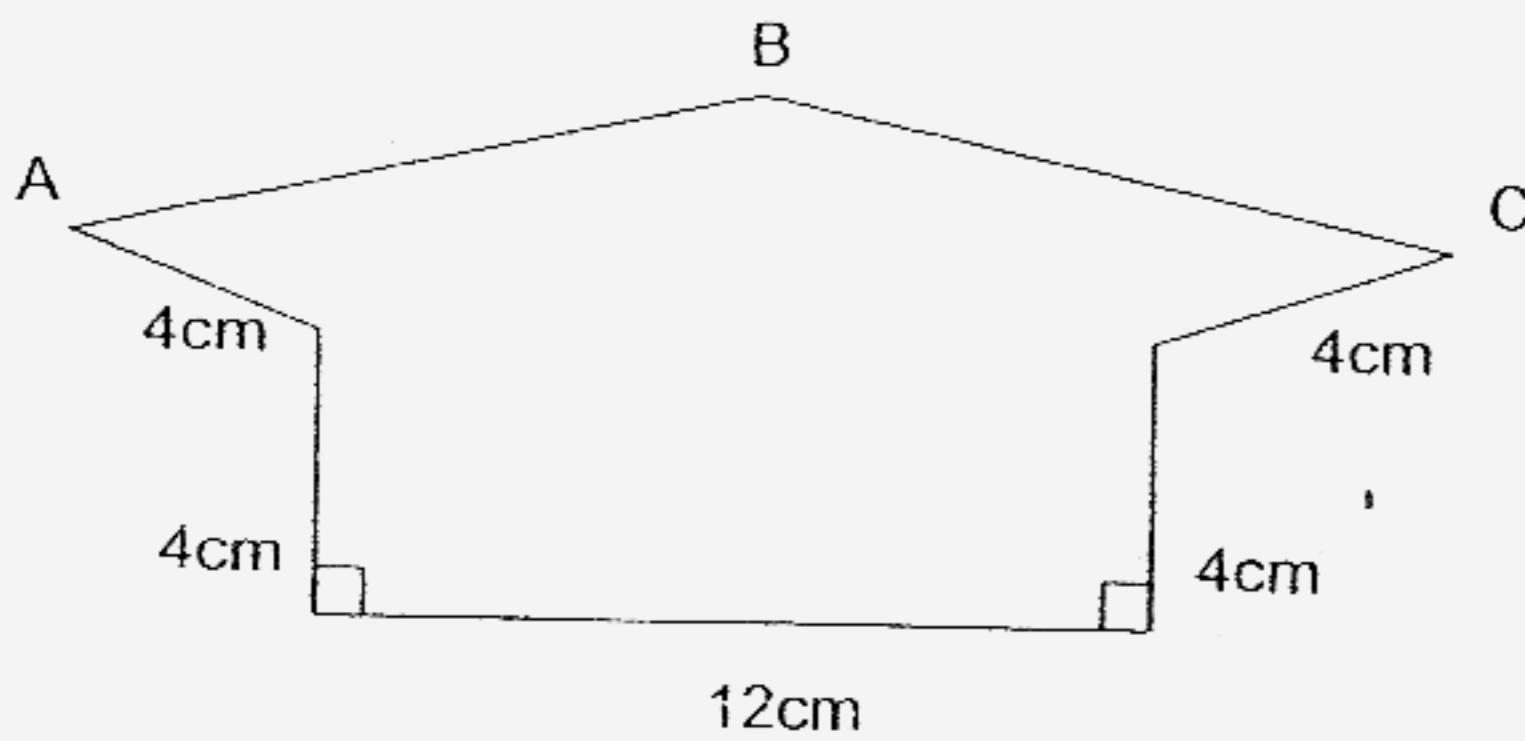
35. A piano lesson started at 10.45 am and ended at 1.05 pm. How long was the piano lesson?

Ans: \_\_\_\_\_ h \_\_\_\_\_ min

36. Mrs Jacob starts work at 8.15 am and finishes at 6.00 pm daily. She stops work for 30 minutes to have her lunch in the afternoon. How long does she work daily?

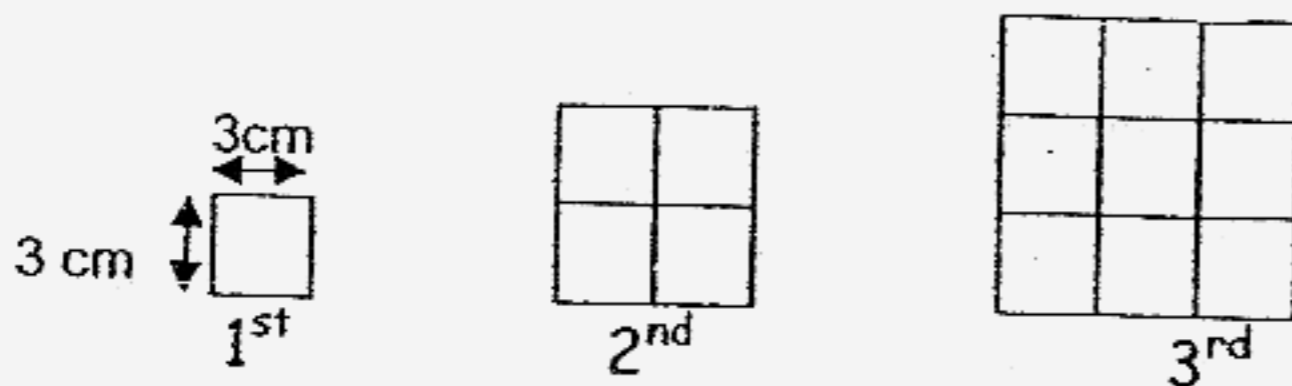
Ans: \_\_\_\_\_ h \_\_\_\_\_ min

37. If the perimeter of the figure below is 43 cm, find the length of ABC.  
(The figure shown below is not drawn to scale).



Ans: \_\_\_\_\_ cm

38. Casey builds some pattern structures using 3-cm squares as shown below. Find the area of the third structure.



Ans: \_\_\_\_\_ cm<sup>2</sup>

39. Draw a line perpendicular to line AB.



40. The total cost of a watch and a necklace is \$2487. If the watch costs \$968, find the cost of the necklace.

Ans: \$ \_\_\_\_\_

**Section C: (20 marks)**

For questions 41 to 45, write your answers in the spaces provided.

For each question, show your working clearly in the space below each question.

The number of marks for each question, or part-question is shown in the brackets [    ].

**Write a statement for each step.**

41. Mrs Lee's monthly salary is \$ 6904. Every month, she saves half of it, donates \$1320 to charity and spends the rest. How much does she spend monthly?

42. John bought 4 boxes of pears. Each box contained 136 pears. He kept 159 pears for himself and shared the rest equally among his 5 friends. How many pears did each of his friends receive?

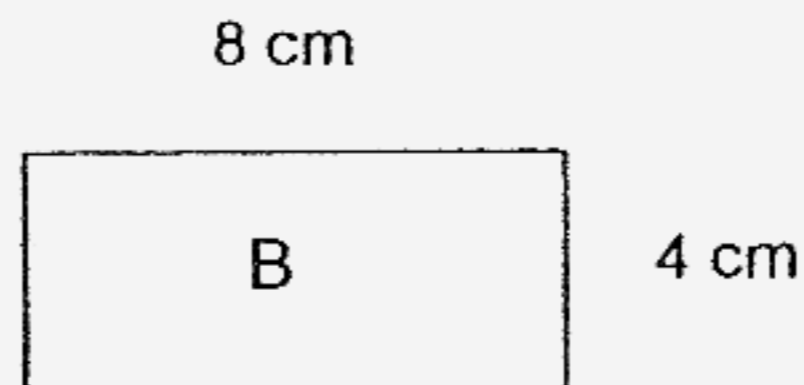
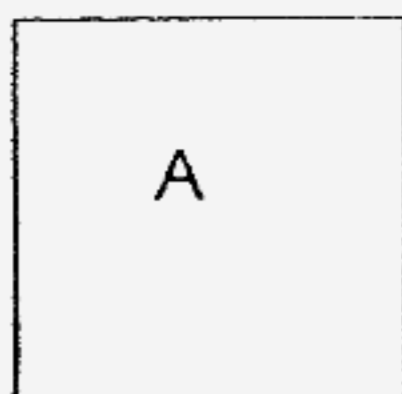
Ans : \_\_\_\_\_ [4]

43. Xavier drinks 20 l more water than Wen Xuan. Charles drinks thrice as much water as Xavier. Altogether they drink 280 l of water.  
How much water does Wen Xuan drink?

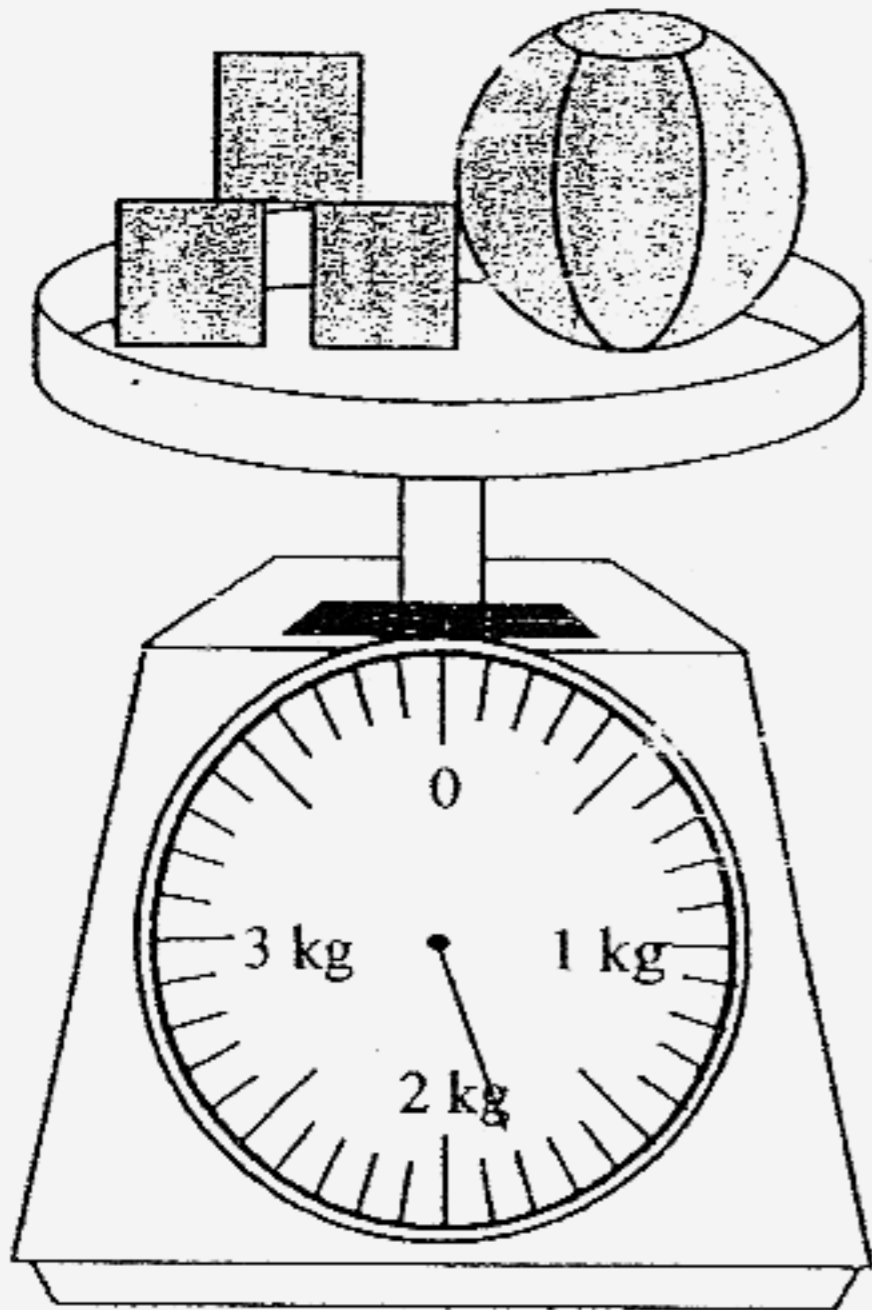
Ans : \_\_\_\_\_ [4]

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44. The perimeter of square A is twice the perimeter of rectangle B.  
What is the area of square A?



45. The diagram below shows the total mass of 3 similar boxes and a ball. Each small box has a mass of 225g. What is the mass of the ball?



Ans : \_\_\_\_\_ [4]



*Remember to check your work!  
Every mark counts.*

**--End of Paper --**



- 1) 3      2) 1      3) 4      4) 1      5) 3  
 6) 1      7) 4      8) 2      9) 2      10) 3  
 11) 3      12) 3      13) 3      14) 4      15) 2  
 16) 4      17) 3      18) 2      19) 4      20) 4

21. 5 thousand 6 tens and 4 ones = **5064**  
 $5000 + 6 \times 10 + 4 \times 1 = 5000 + 60 + 4$

22. Charlene = 409 story books  
 Jarran =  $409 - 213 = 196$  storybooks  
 **$409 + 196 = 605$  storybooks altogether**

23.  $34 \times 19 = 19 \times 2 \times \underline{17}$   
 $646 = 646$

24. 2 apples = \$0.90¢  
 1 apple = \$0.45¢  
 18 apples =  $0.45 \times 18$   
 = \$8.10¢

25. Bryan = \$2.20  
 $4 \times 0.20¢ = \$0.80¢$   
 $\underline{2} \times 0.50¢ = \$1.00¢$   
 $\underline{4} \times 0.10¢ = \$0.40¢$

26. 2 mangoes = 3 oranges  
 $2 \text{ mangoes} + 3 \text{ oranges} = \$2.00$   
 $3 \text{ oranges} + 3 \text{ oranges} = \$2.00$   
 1 oranges = \$0.30  
 $12 \text{ oranges} = 0.30 \times 12$   
 = **\$4.00**

27.  $12\text{l} 5\text{ml} = 12005\text{ml}$   
 $12\text{l} = 12000\text{ml}$

28. Wei Ling

29. Wei Ling = 24 books  
 Kai Jie = 6 books  
 $24 - 6 = 18$   
 $18 \div 2 = \underline{9 \text{ books}}$

30. Yen = 320  
 Robin = 160  
 Jay = 240  
 $320 + 160 + 240 = \underline{720 \text{ toys}}$

31. Linda = 400  
 Wayne = 80  
 $400 - 80 = 320$   
 $320 \div 2 = 160$   
**Yen = 320 toys**  
 Robin = 160 toys  
 Jay = 240 toys  
 Linda = 160 toys  
 Wayne = 160 toys

32.  $\frac{4}{8} = \frac{1}{2}$

33.  $\frac{6}{10} = \frac{54}{90}$

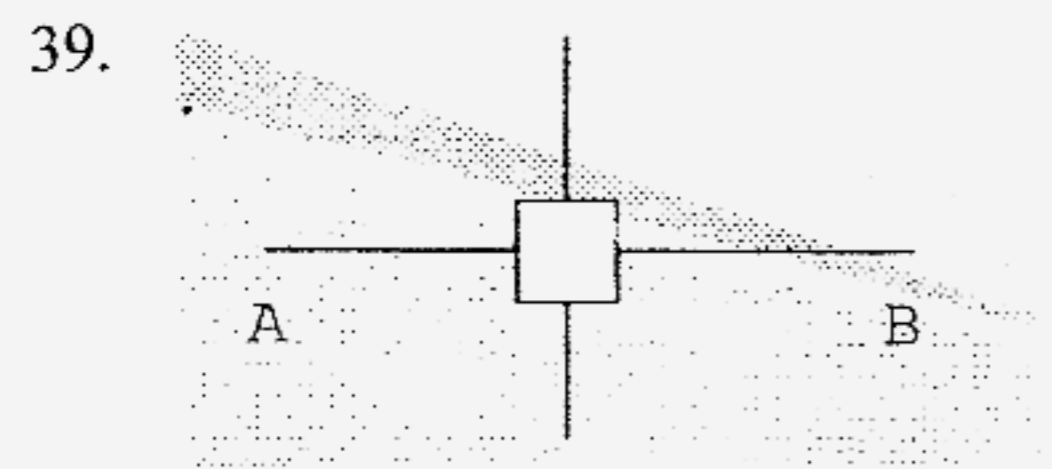
34.  $\frac{5}{6}, \frac{5}{8}, \frac{5}{10}, \frac{5}{12}$

35. 1.05pm = 1305hours  
 10.45am - 11.45am = 1 hour  
 11.45am - 12.45pm = 1 hour  
 1305 - 1245 = 20mins  
**(1 + 1 + 20) = 2 hours 20 mins**

36. 6.00 pm - 30 mins = 5.30pm  
 0815am to 12.15pm = 4 hours  
 5.30pm = 1730hours  
 12.15pm = 1215hours  
 1730 - 1215 = 515 hours  
 4 hours + 515 hours = 915hours  
**= 9 hours 15 mins**

37. Perimeter of figure = 43cm  
 12 + 4 + 4 + 4 + 4 = 28cm  
 43cm - 28cm = **15cm**

38. 3 x 3 = 9cm  
 9 x 9 = **81cm<sup>2</sup>**



40. Watch = \$968.00  
 \$2487 - \$986 = \$1519.00  
 Necklace = **\$1519.00**

41. Salary = \$6904.00  
 Saves = \$6904 ÷ 2 = \$3452.00  
 Donates = \$1320.00  
 \$(3452 - 1320) = \$2132.00

She spends **\$2132.00** monthly.

42. 136 x 4 = 544 pears  
 544 - 159 = 385 pears  
 385 ÷ 5 = 77 pears

Each of his friends received **77 pears**.

$$\begin{aligned}
43. \quad 280\ell + 20\ell &= 300\ell \\
\text{Xavier} &= 1\text{unit} + 20\ell \\
\text{Charles} &= 1\text{unit} + 3\text{units} \\
(1 + 1 + 3) &= 5\text{units} \\
5\text{units} &= 300\ell \\
1\text{units} &= 60\ell \\
60\ell - 20\ell &= 40\ell \\
\text{Wen Xuan drink } &\underline{\mathbf{40\ell}}
\end{aligned}$$

$$\begin{aligned}
44. \quad \text{Rectangle B} &= 8 + 4 + 8 + 4 = 24\text{cm} \\
\text{Square A} &= 24 \times 2 = 48\text{cm}^2 \\
&= 48\text{cm} \div 4 = 12\text{cm} \\
\text{Area of square} &= 12 \times 12 \\
&= \underline{\mathbf{144\text{cm}^2}}
\end{aligned}$$

$$\begin{aligned}
45. \quad 1\text{ box} &= 225\text{g} \\
3\text{ boxes} &= 225 \times 3 \\
&= 675\text{g}
\end{aligned}$$

$$\begin{aligned}
\text{Total mass} &= 1.8\text{kg} (1800\text{g}) \\
&= 1800\text{g} - 675\text{g} \\
&= 1125\text{g}
\end{aligned}$$

The mass of the ball **1 kg 125g**