



# AI TONG SCHOOL

2006

SEMESTRAL ASSESSMENT 2

PRIMARY 3

**MATHEMATICS**

DURATION : 1 h 30 min

DATE: 27<sup>th</sup> October 2006

## INSTRUCTIONS

Do not open the booklet until you are told to do so.

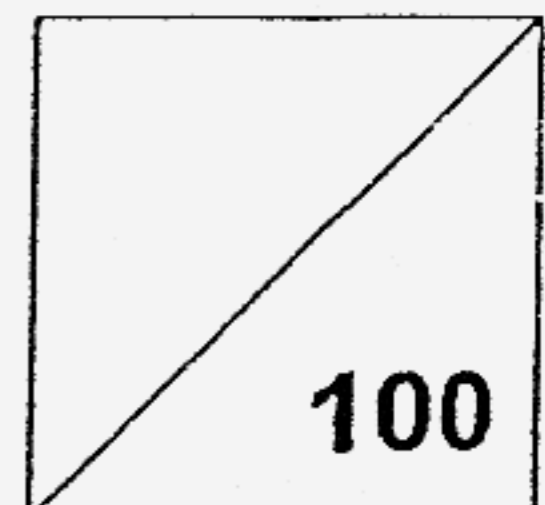
Follow all instructions.

Answer all questions.

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

Class : Primary 3 \_\_\_\_\_

Marks:



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

Date : \_\_\_\_\_

**SECTION A**

**Questions 1 to 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). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. (40marks)

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1.  $8\ 956 = 8\ 000 + \square + 6$

What is the missing number in the box?

- (1) 900
- (2) 905
- (3) 950
- (4) 956

2. A chicken and a duck cost \$40. A duck costs \$8 more than a chicken. Find the cost of the chicken.

- (1) \$16
- (2) \$22
- (3) \$24
- (4) \$32

3. If  $\clubsuit \clubsuit \clubsuit \clubsuit \clubsuit \clubsuit \clubsuit \clubsuit$  represent 912, what does  $\clubsuit \clubsuit$  represent?

- (1) 114
- (2) 228
- (3) 304
- (4) 456

4. Mabel packed 640 butter cookies into boxes of 5.

She sold 100 boxes of cookies.

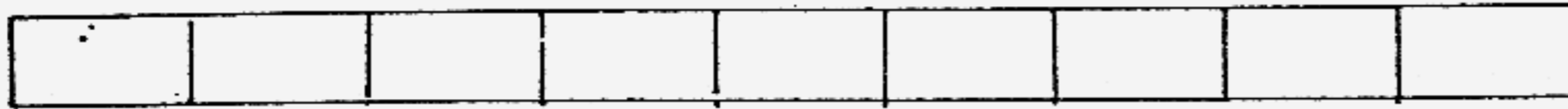
How many boxes were not sold?

- (1) 20
- (2) 28
- (3) 500
- (4) 540

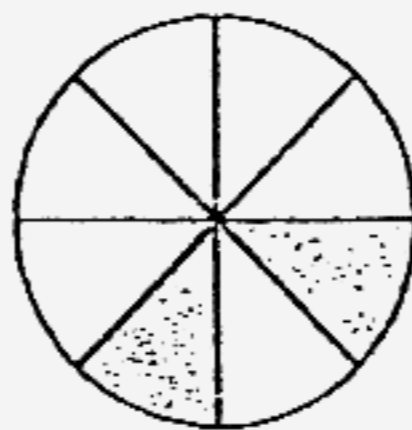
5. How many five-cent coins are there in \$5?
- (1) 20
  - (2) 25
  - (3) 50
  - (4) 100
6. Henry has 20 fifty-cent coins. Tim has \$8.35. How much do they have altogether?
- (1) \$1.65
  - (2) \$10.00
  - (3) \$18.35
  - (4) \$28.85
7.  $10\text{ m } 20\text{ cm} + \underline{\hspace{2cm}} = 15\text{ m } 5\text{ cm}$
- (1) 4 m 75 cm
  - (2) 4 m 85 cm
  - (3) 5 m 25 cm
  - (4) 5 m 30 cm
8. String A is 752 cm long. It is 2 m 8 cm shorter than String B. Find the length of String B.
- (1) 472 cm
  - (2) 544 cm
  - (3) 960 cm
  - (4) 1032 cm
9. A tin of rice has a mass of 2 kg 60 g. The tin itself has a mass of 150 g. What is the mass of the rice?
- (1) 110 g
  - (2) 1 090 g
  - (3) 1 kg 910 g
  - (4) 2 kg 210 g

10. The total capacity of a flask and a jug is 5 l 50 ml.  
The capacity of the jug is 3 l 70 ml. How much water does the flask hold?
- (1) 1 l 800 ml
  - (2) 1 l 980 ml
  - (3) 2 l 80 ml
  - (4) 2 l 120 ml

11. One part of the bar is shaded. How many more parts must Sally shade if she wants to show that  $\frac{2}{3}$  of the bar is shaded?

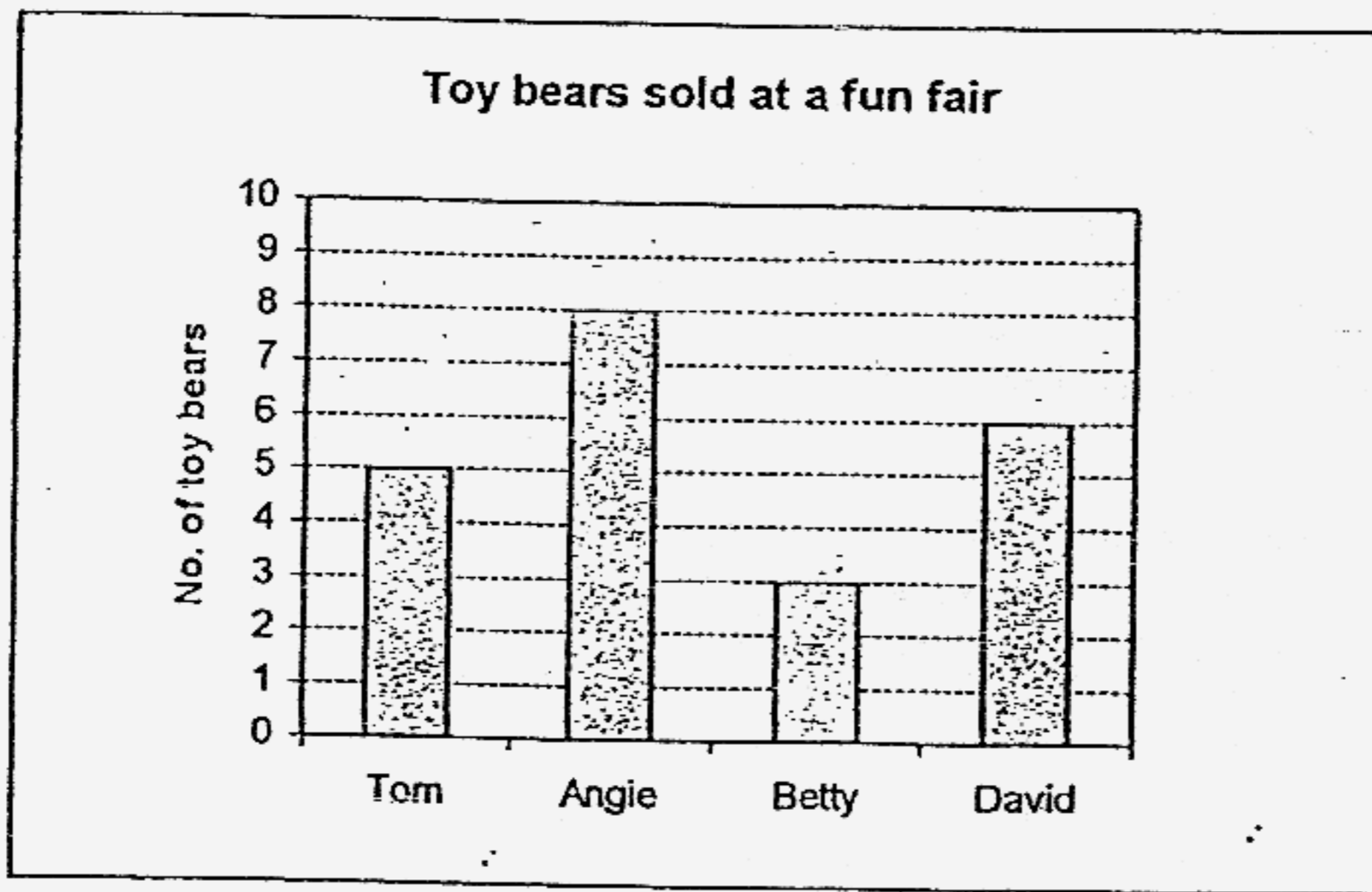


- (1) 1
  - (2) 2
  - (3) 5
  - (4) 6
12. What fraction of the figure is shaded?



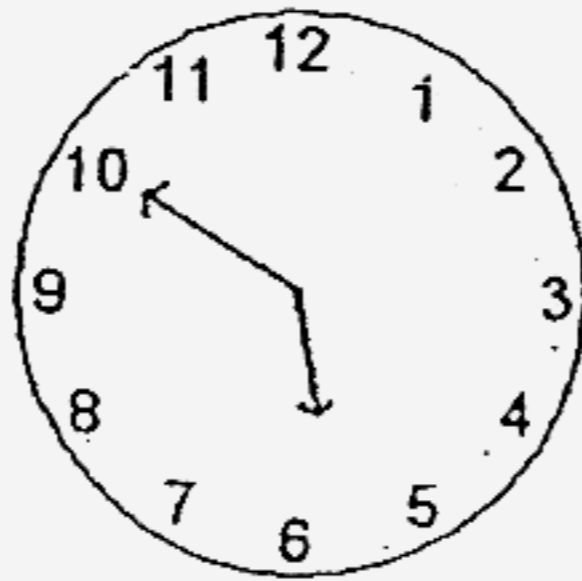
- (1)  $\frac{1}{4}$
- (2)  $\frac{3}{4}$
- (3)  $\frac{2}{6}$
- (4)  $\frac{6}{8}$

13. The graph below shows the number of toy bears sold by four children at a fun fair.



Each child was given 10 toy bears to sell at a fun fair. Each bear cost \$5. If David were to sell the rest of his toy bears, how much more money could he collect?

- (1) \$20
  - (2) \$30
  - (3) \$40
  - (4) \$50
14. The time shown is \_\_\_\_\_.



- (1) 5.10 p.m.
- (2) 5.50 p.m.
- (3) 6.50 p.m.
- (4) 10.28 p.m.

15. The table shows how long 4 children took to complete their social studies project.

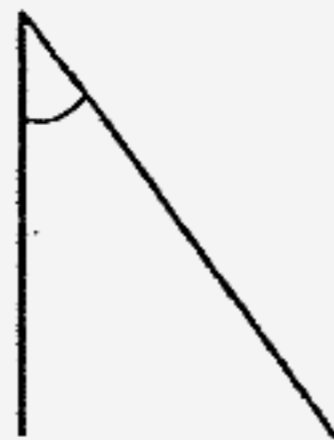
Name of Child	Time Taken
Aisha	2 weeks 2 days
Brenda	22 days
Chandra	3 weeks
De Wei	13 days

Who took the longest time?

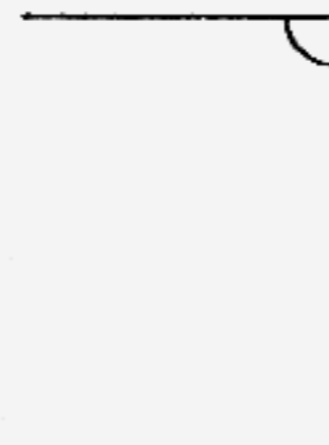
- (1) Aisha
  - (2) Brenda
  - (3) Chandra
  - (4) De Wei
16. Which one of the following angles is a right angle?



A



B



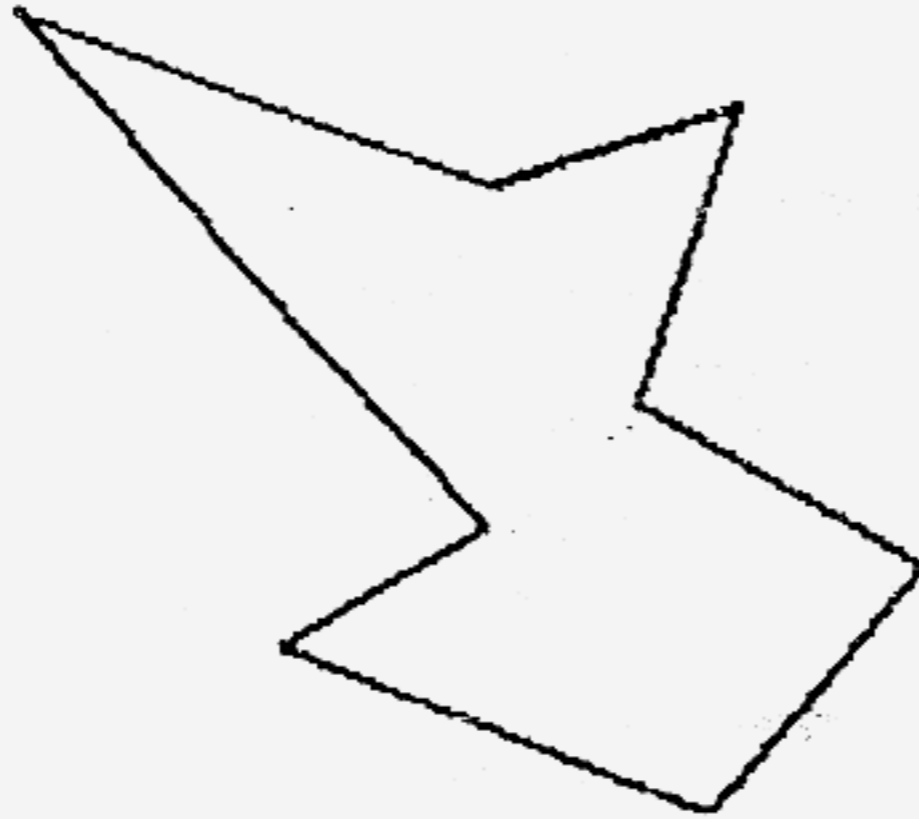
C



D

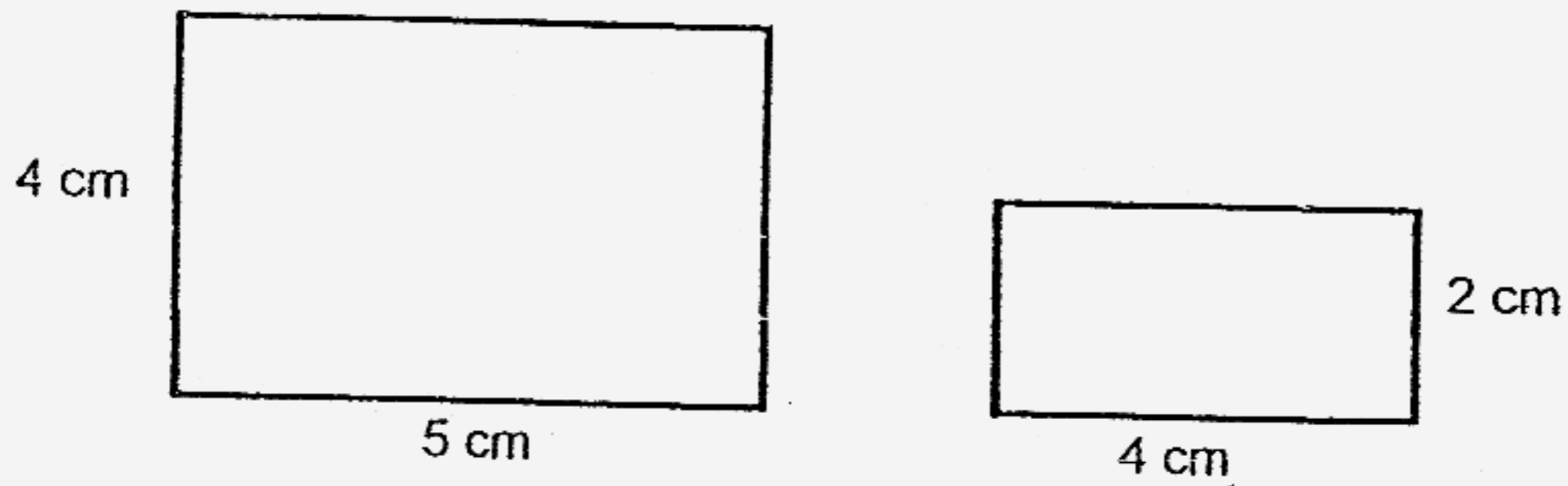
- (1) A
- (2) B
- (3) C
- (4) D

17. How many angles are there in the figure shown below?



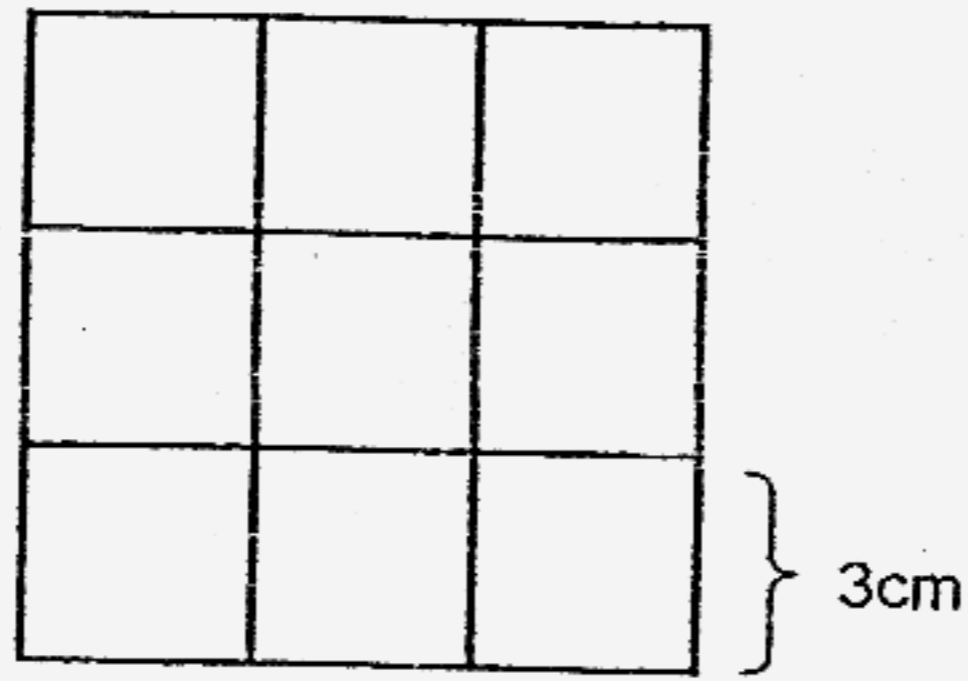
- (1) 16
- (2) 8
- (3) 6
- (4) 5

18. What is the **difference in area** between the two figures shown below?

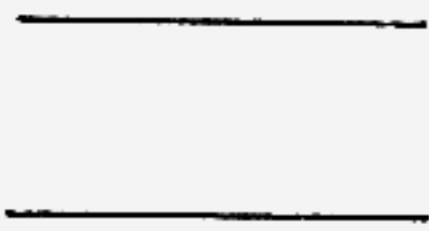


- (1)  $8 \text{ cm}^2$
- (2)  $12 \text{ cm}^2$
- (3)  $20 \text{ cm}^2$
- (4)  $28 \text{ cm}^2$

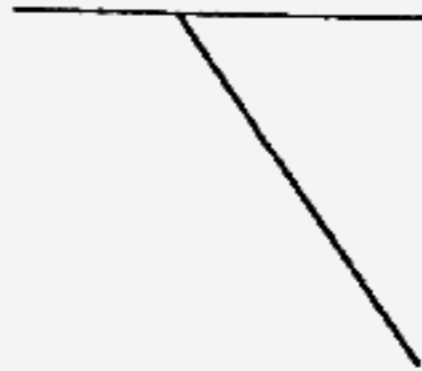
19. The figure is made up of 9 squares.  
Each square measures 3 cm by 3 cm. What is the area of the figure?



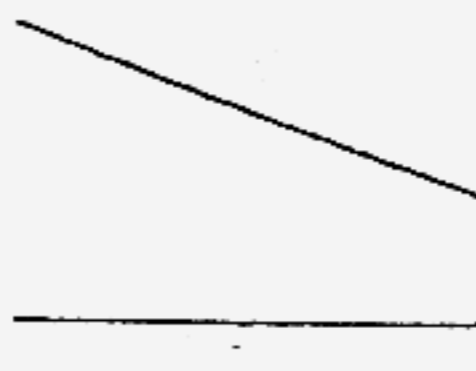
- (1)  $9 \text{ cm}^2$
  - (2)  $27 \text{ cm}^2$
  - (3)  $36 \text{ cm}^2$
  - (4)  $81 \text{ cm}^2$
20. Identify the figure that shows perpendicular lines.



A



B



C



D

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



## SECTION B

Questions 21 to 40 carry 2 marks each.

Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (40 marks)

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21. 9 654 is 100 more than \_\_\_\_\_.

Answer: \_\_\_\_\_

22. Find the value of  $428 \times 9$ .

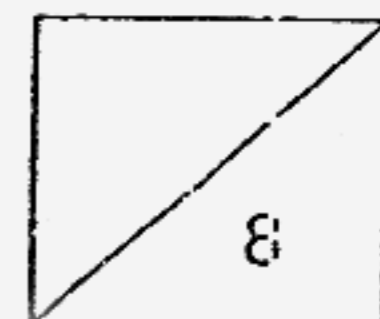
Answer: \_\_\_\_\_

23.  $8 \times 204 = 6 \times 204 +$    
The missing number in the box is \_\_\_\_\_.

Answer: \_\_\_\_\_

24.   $\times 7 = 400 + 314$   
The missing number in the box is \_\_\_\_\_.

Answer: \_\_\_\_\_



25. A baker makes 252 buns in a week.  
How many buns can he bake in 8 days if he bakes the same number of buns each day?

Answer: \_\_\_\_\_

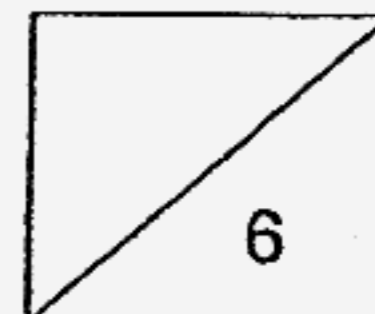
26. Janet bought 8 kg of prawns and some crabs for \$240.  
Find the cost of 1 kg of prawns if the crabs cost \$80.

Answer: \$ \_\_\_\_\_

27. Mary bought these items from a shop.  
She spent a total of \$12.  
Find the cost of the note-book.

Scissors	\$4
Ruler	25 ¢
Paper Clips	55 ¢
Note-book	?

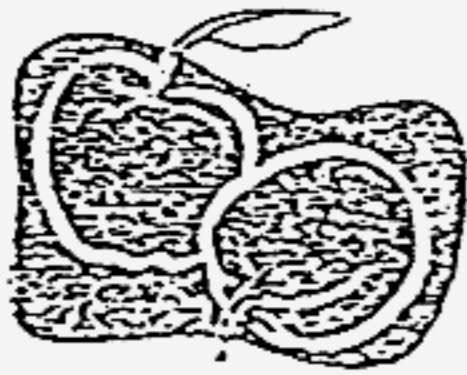
Answer: \$ \_\_\_\_\_



28. Weilin had a \$20 note and some twenty-cent coins to buy a tennis racket. The racket cost \$21.40. How many twenty-cent coins did she use?

Answer: \_\_\_\_\_

29. Mei-mei paid \$10.00 to the cashier to buy 6 apples and 3 pears. How much change should she receive?



3 for \$2.00

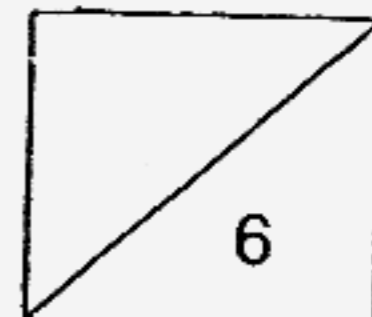


3 for \$1.50

Answer: \$ \_\_\_\_\_

30. Jeff travelled 5 km by bus. He then travelled 12 km 800 m by taxi. Finally he walked 1 040 m of the remaining journey. Find the total distance travelled by Jeff in kilometres and metres.

Answer: \_\_\_\_\_ km \_\_\_\_\_ m



31. Martin has 8 m of string. He cuts it into 2 pieces.  
The first piece is 1 m 40 cm longer than the second piece.  
Find the length of the first piece.

Answer: \_\_\_\_\_ cm

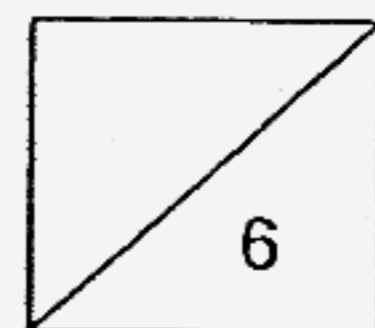
32. If Maran drinks half the packet of milk, how many mL of milk is left?



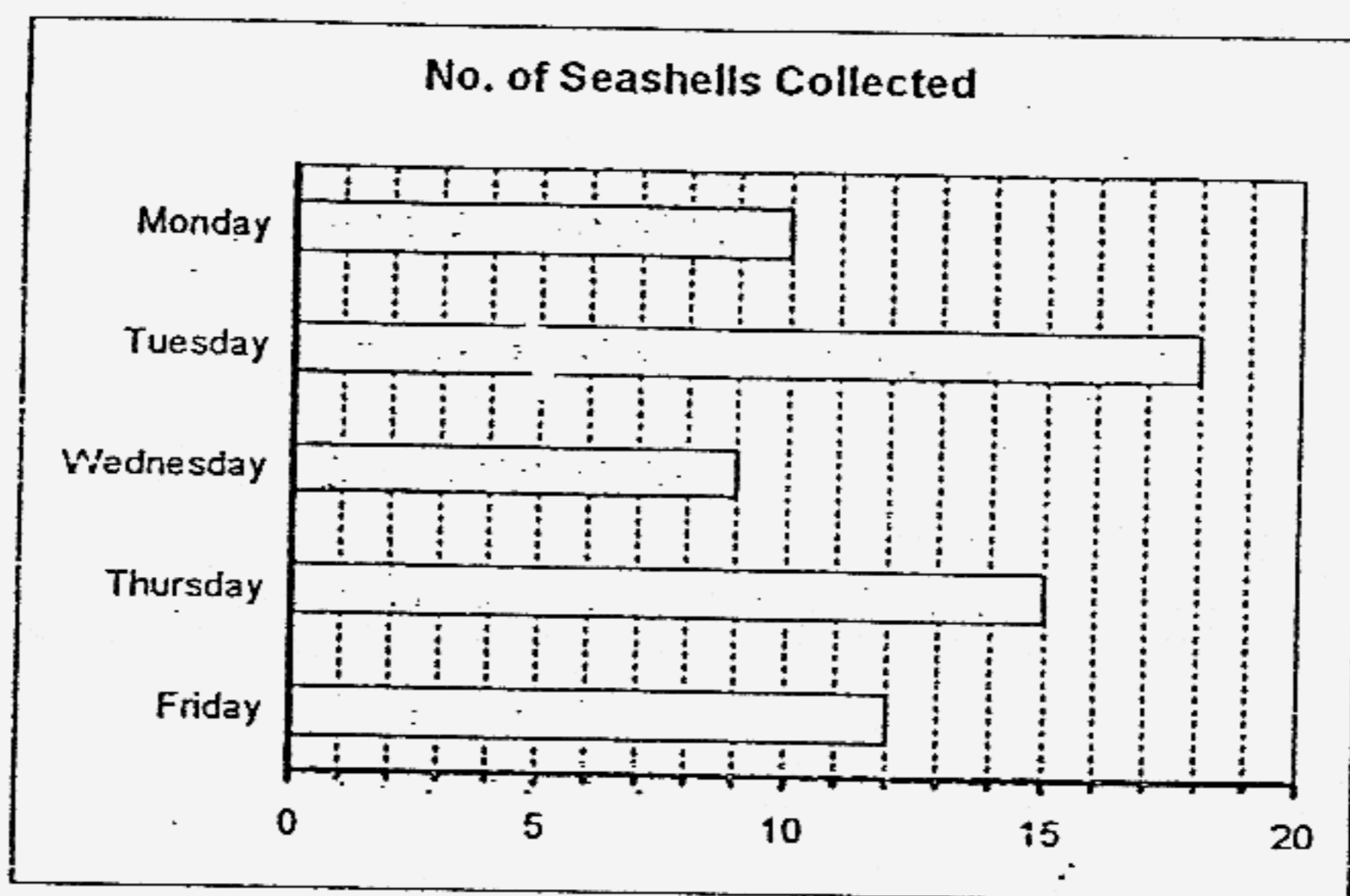
Answer: \_\_\_\_\_ mL

33. Miss Tan prepared 4 l of lime juice by mixing 650 mL of lime syrup with some water. How much more water than lime syrup did she use?  
(Give your answer in litres and millilitres.)

Answer: \_\_\_\_\_ l \_\_\_\_\_ mL



34. The graph below shows the number of seashells collected by Jenny from Monday to Friday.



How many seashells did she collect in all?

Answer: \_\_\_\_\_

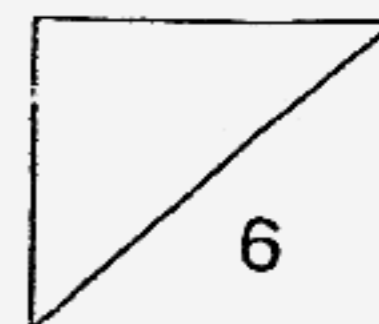
35. Mother has a pie. After giving  $\frac{1}{3}$  of the pie to her neighbour and  $\frac{1}{6}$  of it to her children, what fraction of the pie is left?  
(Give your answer in the simplest form.)

Answer: \_\_\_\_\_

36. Arrange these fractions from the smallest to the greatest.

$$\frac{3}{5} \quad \frac{7}{10} \quad \frac{1}{2}$$

Answer: \_\_\_\_\_



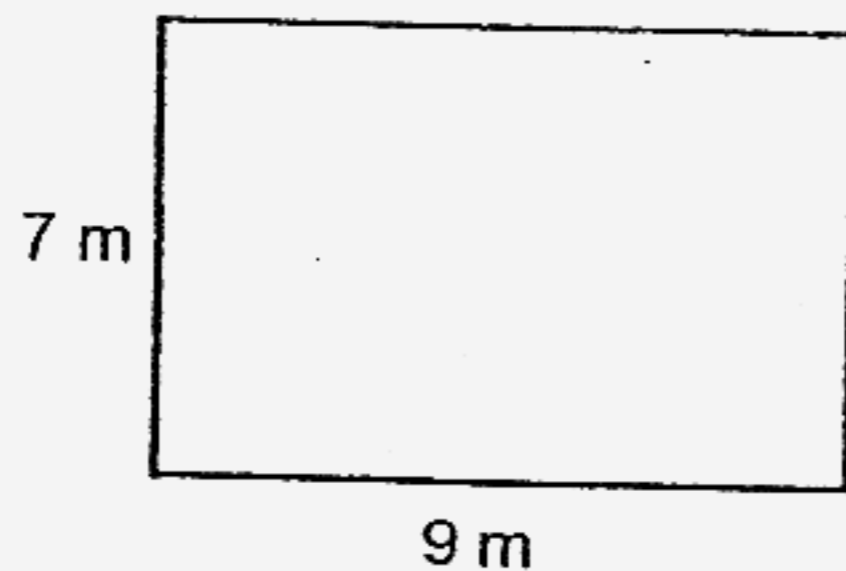
37. Express 152 minutes in hours and minutes.

Answer: \_\_\_\_ h \_\_\_\_ min

38. Lily takes 20 minutes to walk from home to school.  
She reaches school every day at 7.15 a.m. What time does she leave her home?

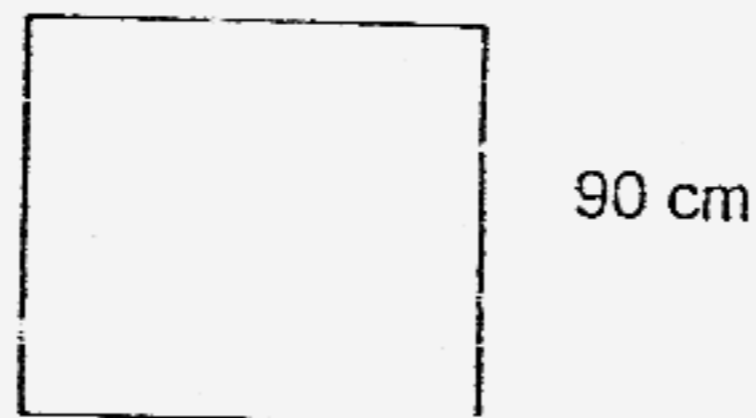
Answer: \_\_\_\_\_ a.m.

39. What is the perimeter of the rectangular field shown below?

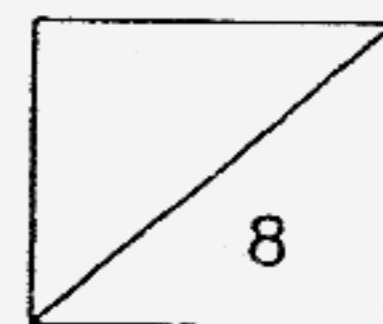


Answer: \_\_\_\_\_ m

40. The side of a square table is 90 cm. What is the perimeter of the table?



Answer: \_\_\_\_\_ cm



**SECTION C**

**Questions 41 to 45 carry 4 marks each.**

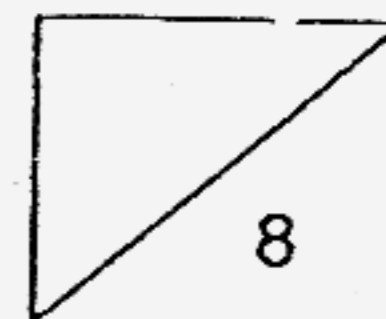
For questions 41 to 45, show your working clearly in the space provided for each question.

(20 marks)

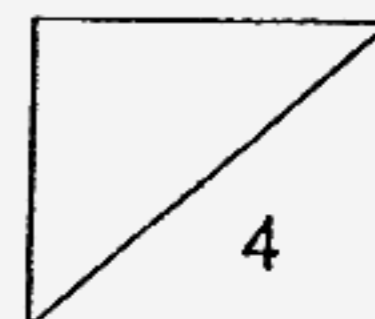
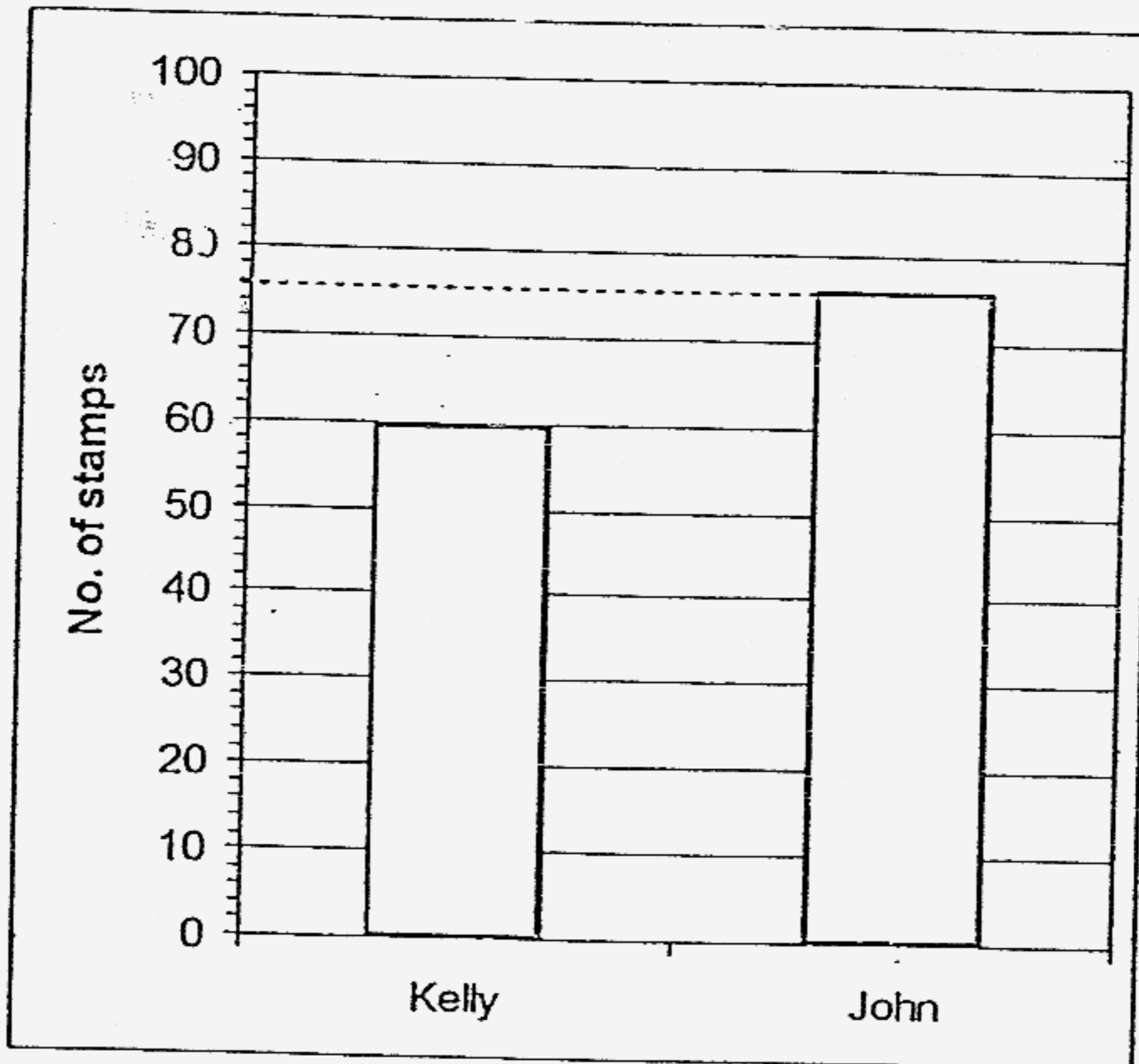
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41. Bala received three times as much money as Pin Pin. Thomas received \$80 more than Bala. If Pin Pin received \$500, how much did Thomas receive?

42. A bottle contains 1500 ml of apple juice and a can contains 750 ml of mango juice. During a promotion, 4 bottles of apple juice comes with one free can of mango juice. Find the total amount of juice in this package in l and ml.



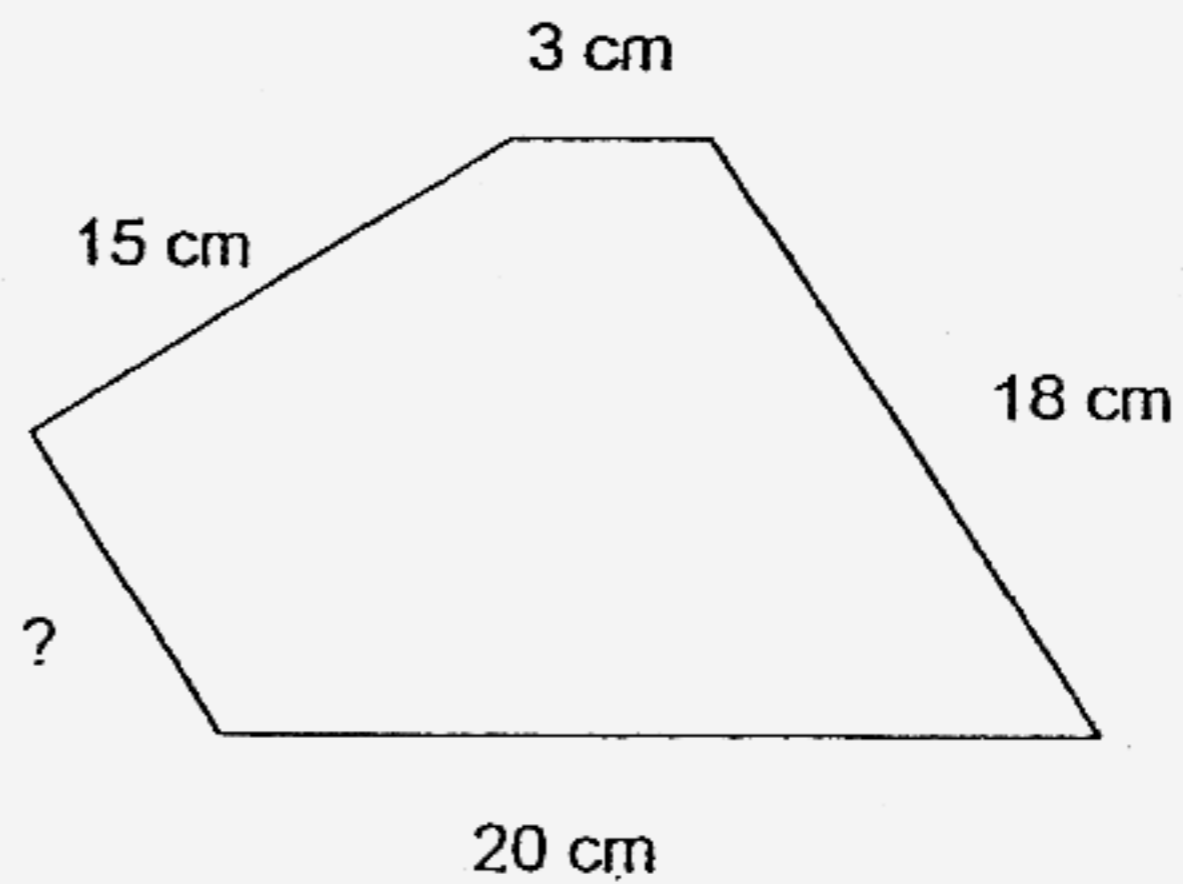
43. Kelly and John collected some stamps as shown in the graph. Father then gave both of them an equal number of stamps. If John has 100 stamps now, how many stamps did Father give them altogether?



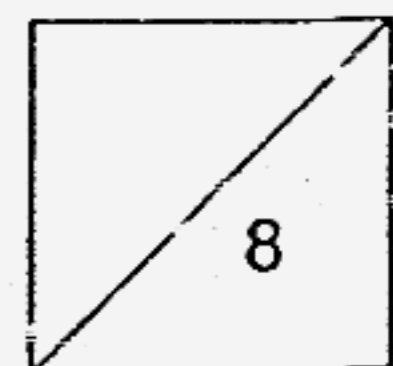


44. Jessica bought some marbles.  $\frac{1}{2}$  of the marbles were red in colour.  
 $\frac{1}{8}$  of the marbles were yellow and the rest were blue. What fraction of the marbles was blue?

45. This figure has a perimeter of 62 cm. What is the missing length in the figure?



- End of paper -  
~ Check your work carefully ~



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

21.  $9654 - 100 = \underline{9554}$

22.  $428 \times 9 = 3852$

23.  $8 \times 204 = 6 \times 204 + \underline{408}$   
 $1632 = (1224) + 408 = 1632$

24.  $\underline{102} \times 7 = 400 + 314$   
 $714 = 714$

25. 7 days = 252  
 1 day = 36  
 8 days =  $36 \times 8$   
 = 288 buns

26.  $\$240 - \$80 = \$160$   
 $\$160 = 8\text{kg prawns}$   
 $\$20.00 = 1\text{kg prawn}$

27.  $\$(4.00 - 0.25 - 0.55) = \$4.80$   
 Note Book =  $\$(12.00 - 4.80) = \underline{\$7.20}$

28.  $\$(21.40 - 20) = \$1.40$   
 $\$1.40 \div 0.20 = \underline{7} \text{ } 0.20\text{¢ coins}$

29. 3 apples = \$2.00  
 6 apples = \$4.00  
 3 pears = \$1.50  
 $\$(4.00 + 1.50) = \$5.50$   
 $\$(10.00 - 5.50) = \underline{\$4.50 \text{ changed}}$

30. Bus = 5km (5000m)  
 Taxi = 12km 800 (12800m)  
 Walk = 1040m  
 $(5000 + 12800 + 1040)\text{m} = 18840\text{m}$   
 = 18km 840m

31. 8m = 800cm  
 1m 40cm = 140cm  
 $(800 - 140)\text{cm} = 660\text{cm}$   
 $660\text{cm} \div 2 = 330\text{cm}$   
 $(330 + 140)\text{cm} = \underline{470\text{cm}}$

32. 1ℓ = 1000ml  
 $1000 \div 2 = 500\text{ml}$   
 $(1000 - 500)\text{ml} = \underline{500\text{ml}}$

33. 4ℓ = 4000ml  
 $4000\text{ml} - 650\text{ml} = 3350\text{ml}$   
 $3350\text{ml} - 650\text{ml} = 2700\text{ml}$   
 = 2ℓ 700ml

34.  $10 + 18 + 9 + 15 + 12 = \underline{64 \text{ seashells}}$

35.  $\frac{1}{3} + \frac{1}{6} = \frac{3}{6} = \frac{1}{2}$   
 $\frac{1}{2}$  the pie left

36.  $\frac{1}{2}, \frac{3}{5}, \frac{7}{10}$

37.  $152\text{mins} = \underline{2 \text{ hrs } 32 \text{ mins}}$   
 $2 \text{ hours} = 120\text{mins}$   
 $(152 - 120) = 32\text{mins}$

38.  $7.15\text{am} - 20\text{mins} = \underline{6.55\text{am}}$

39.  $7 + 9 + 7 + 9 = \underline{32\text{m}}$

40.  $90 + 90 + 90 + 90 = \underline{360\text{cm}}$

41. Pin Pin = \$500.00  
Bala = \$500 x 3 = \$1500.00  
Thomas = \$80.00 + \$1500 = \$1580.00

Thomas received \$1580.00

42. 1 bottle = 1500ml apple juice  
4 bottles = 1500ml x 4  
= 6000ml

1 can = 750ml mango juice  
= 6000ml + 750ml  
= 6750ml  
= 6l 750ml

The total amount of juice this package is 6l 750ml

43.  $100 - 76 = 24 \text{ stamps}$   
 $24 \times 2 = 48 \text{ stamps}$

John's father gave them 48 stamps altogether.

44. Red =  $\frac{1}{2}$

Yellow =  $\frac{1}{8}$

$$\frac{1}{2} + \frac{1}{8} = \frac{5}{8}$$

$$1 - \frac{5}{8} = \underline{\frac{3}{8}} \text{ (blue)}$$

45.  $62 - (18 + 3 + 15 + 20)$

$$62 - 56 = 6\text{cm}$$

The missing length is 6cm.