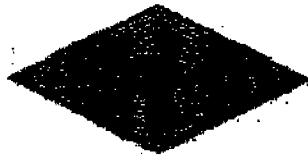


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**NANYANG PRIMARY SCHOOL**  
**SECOND SEMESTRAL EXAMINATION**  
**2004**

**PRIMARY 5**  
**MATHEMATICS**

**TIME: 2 HOUR 15 MINUTES**

<b>Section A</b>	<b>/ 25</b>
<b>Section B</b>	<b>/ 20</b>
<b>Section C</b>	<b>/ 55</b>

<b>Total:</b>	<b>/100</b>
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Name: \_\_\_\_\_ ( )

Class: Primary 5 ( )

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

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

67

**Section A**

Questions 1 to 5 carry one mark each. Questions 6 to 15 carry two 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 correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(Total: 25 marks)

1. The value of  $8 + (4 \div 2) \times 12 - 7$  is \_\_\_\_\_.

(1) 18

(2) 25

(3) 50

(4) 113

2. Find the difference between 9.432 and 6.035. Give your answer to 2 decimal places.

(1) 3.30

(2) 3.38

(3) 3.39

(4) 3.40

3. The distance between Peter's house and the food centre is 0.305 km. What is this distance in metres?

(1) 3.05 m

(2) 3.5 m

(3) 30.5 m

(4) 305 m

4. Charles had \$60. He spent  $\frac{1}{3}$  of his money on a book and  $\frac{2}{5}$  of the remaining money on food. How much money had he left?

- (1) \$16
- (3) \$40

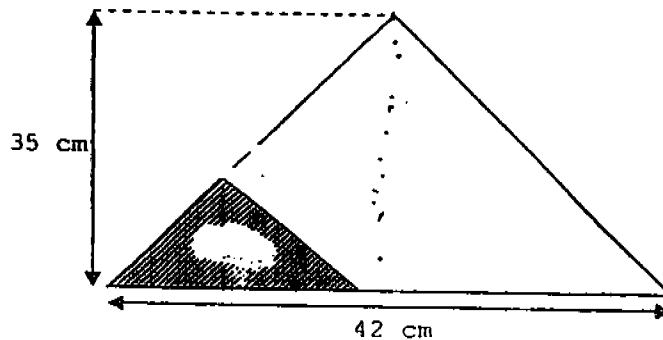
- (2) \$24
- (4) \$44

5. Express 60¢ as a ratio of \$1.80 in its simplest form.

- (1) 1 : 3
- (3) 3 : 9

- (2) 3 : 1
- (4) 6 : 18

6. In the figure below, the shaded area is  $\frac{2}{5}$  the unshaded area. What is the shaded area?

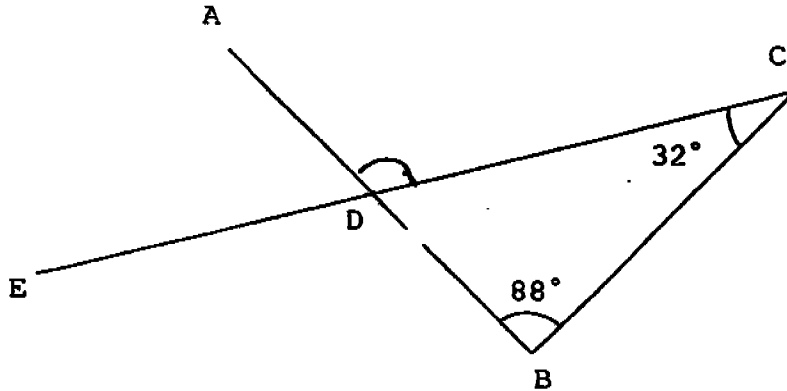


- (1) 210 cm<sup>2</sup>
- (3) 420 cm<sup>2</sup>

- (2) 294 cm<sup>2</sup>
- (4) 441 cm<sup>2</sup>

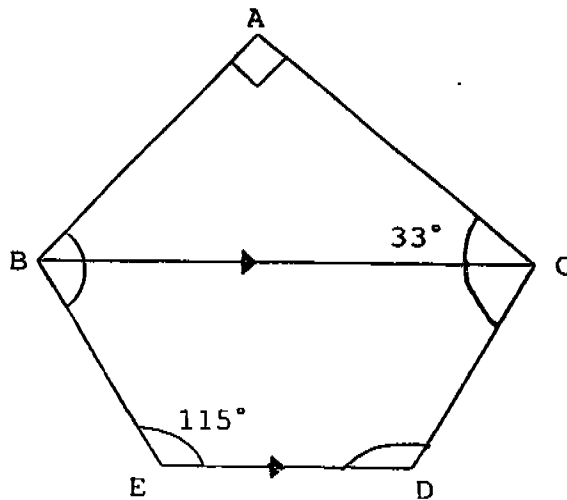


10. In the figure below,  $ADB$  and  $EDC$  are straight lines. Find  $\angle ADC$ .



- (1)  $32^\circ$                       (2)  $49^\circ$   
 (3)  $92^\circ$                       (4)  $120^\circ$

11. In the figure below,  $ABC$  is a right-angled triangle and  $BCDE$  is a trapezium. Find  $\angle ABE$ .



- (1)  $57^\circ$                       (2)  $65^\circ$   
 (3)  $115^\circ$                     (4)  $122^\circ$

12. In the magic square shown below, find the product of ★ and

4	★	2
8	1	6
3	5	☆

- (1) 16  
(2) 24  
(3) 63  
(4) 72

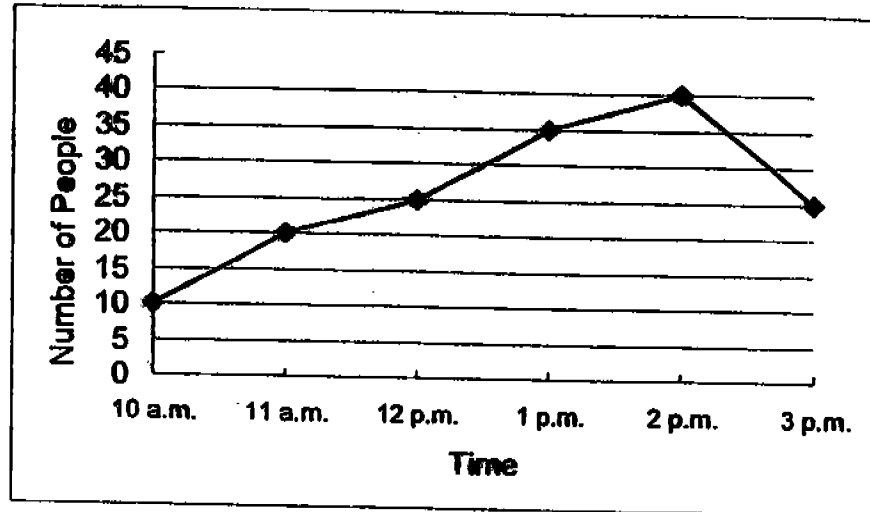
13. The table shows the parking charges at a car park.

For the first 2 hour	\$1.50
For every additional hour or part thereof	\$1.20

If Mr Lim parked his car there from 12 noon to 4.30 p.m., how much did he have to pay?

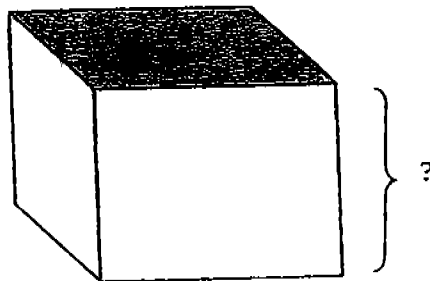
- (1) \$2.70  
(2) \$3.00  
(3) \$3.60  
(4) \$5.10

14. The line graph below shows the number of people who visited a library from 10 a.m. to 3 p.m. on a certain day.



What was the increase in the number of people from 10 a.m. to 1 p.m.?

- (1) 30  
(2) 25  
(3) 20  
(4) 10
15. The shaded surface area of the cuboid shown below is  $84 \text{ cm}^2$ . Find the height of the cuboid given that its volume is  $504 \text{ cm}^3$ .



- (1) 6 cm  
(2) 60 cm  
(3) 420 cm  
(4) 42 336 cm

Name: \_\_\_\_\_ ( ) Class: Pr 5 ( )

P5 SA2 2004

**Section B**

Questions 16 to 35 carry 1 mark each. Write your answers in the spaces provided. Give your answers in the units stated.

(Total: 20 marks)

16. Write 6 523 040 in words.

17. Find the value of  $4 \times (34 - 18) + 52 \div 4$ .

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

18.  $73.89 \div 100 = 73.89 \times \square$

The answer in the box is \_\_\_\_\_.

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

19. 0.3 of a number is 63. What is 0.25 of the number?

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



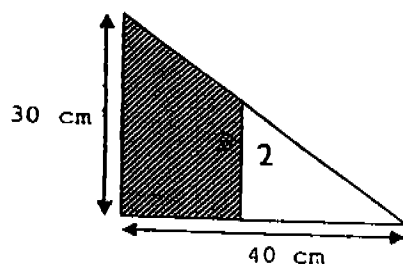
20. I bought 13 kg of prawns at \$18 per kilogramme. If I gave the fishmonger 5 fifty-dollar notes, how much change would I receive?

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

21. Anand has 36 cookies. He gave  $\frac{1}{4}$  of the cookies to his brother and  $\frac{1}{2}$  of it to his sister. How many cookies were left?

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

22. In the triangle shown below, the shaded area is  $1\frac{1}{2}$  times the unshaded part. Find the unshaded area.



Answer: \_\_\_\_\_  $\text{cm}^2$

23. The ratio of Arnold's savings to Weili's savings is 3 : 4. If Weili saves \$16, find Arnold's savings.

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

24. The ratio of the number of men to the number of women to the number of children at a picnic is 3 : ~~4~~ : 2. If there are 12 children at the picnic, how many more adults are there?

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

25. 12 bottles of water can fill 18 cups. How many cups can 32 bottles of water fill?

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

26. Express 0.09 as a percentage.

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

27. A television set cost \$800. Mr Ang has to pay 5% GST. How much will he have to pay for the television set?

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

28. Hashim spent a total of \$42 360 for the whole of last year. What was his average expenditure per month?

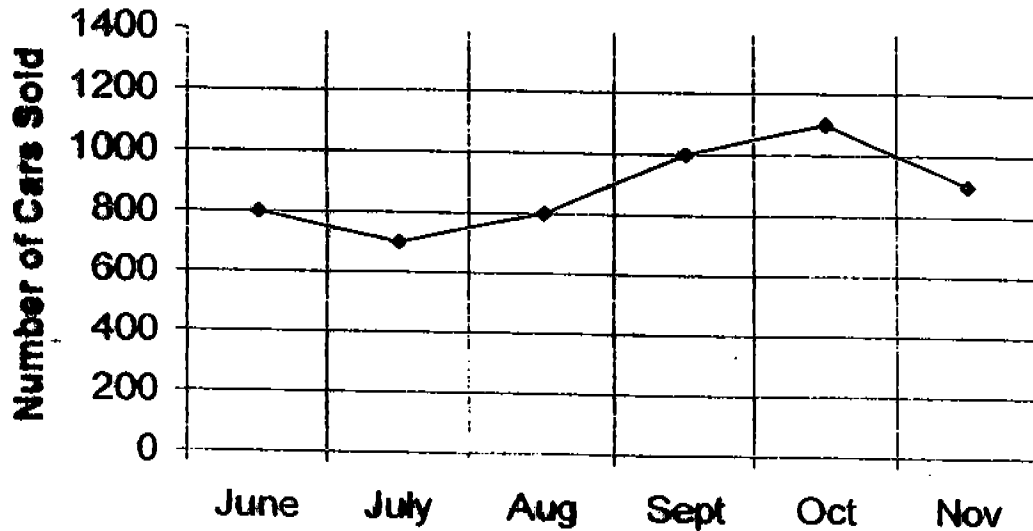
Answer: \$ \_\_\_\_\_

29. A tank 80 cm by 60 cm by 40 cm is  $\frac{3}{4}$  filled with water. When

50 l of water is added to the tank, how many litres of water will flow out of it? (1 l = 1 000 cm<sup>3</sup>)

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

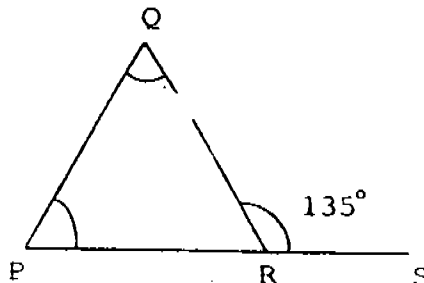
The line graph below shows the number of cars sold in a showroom from June to November. Study it carefully and answer question 30...



30. What was the average number of cars sold from July to October?

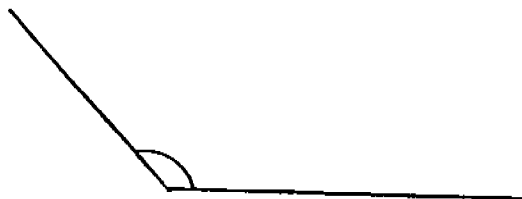
Answer: \_\_\_\_\_

31. In the figure, PRS is a straight line. What is the size of  $\angle QPR$ ?



Answer: \_\_\_\_\_°

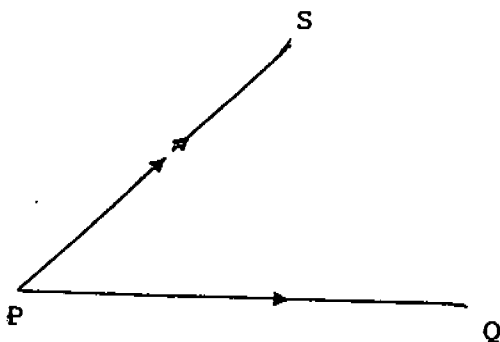
32. Measure the marked angle.



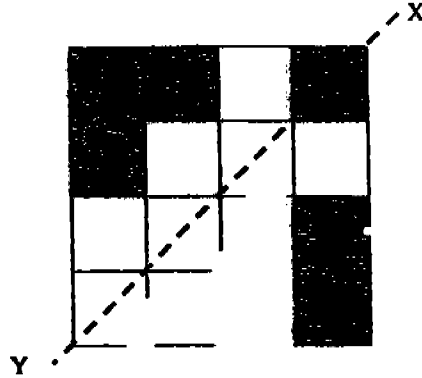
Answer: \_\_\_\_\_ °

33. Complete the construction of parallelogram PQRS shown below.

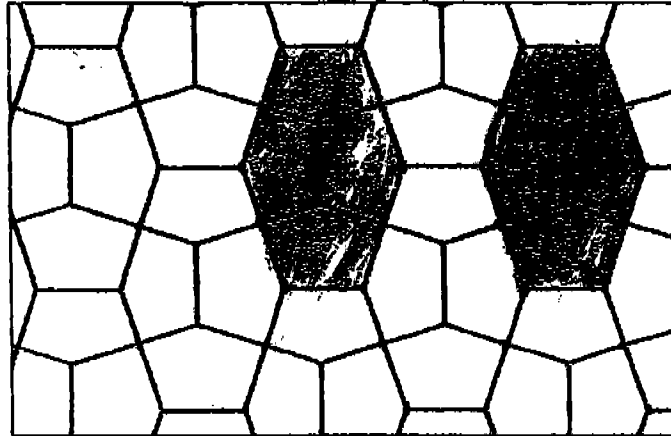
$$\angle SPQ = 45^\circ.$$



34. XY is the line of symmetry of the figure shown below. Shade one more box in the figure below to complete it.



35. Shade 2 unit patterns in the tessellation shown below.



Name: ( \_\_\_\_\_ ) ( : Class: Pr 5 (

P5 SA2 2004

Section C

For questions 36 to 50, show your working clearly in the space below each question and write your answers in the space provided.

The number of marks available is shown in brackets [ ] at the end of each question or part-question.

(Total: 55 marks)

- 36) Mother paid \$6.96 for 900 g of grapes. Find the cost of 1.5 kg of grapes.

Answer: \_\_\_\_\_ (2)

37. The ratio of the number blue, green and red pens was in the ratio 2 : 5 : 8. When 18 more blue and green pens were added into the box, the ratio of the 3 types of pens became the same. How many pens were there, in the box at first?

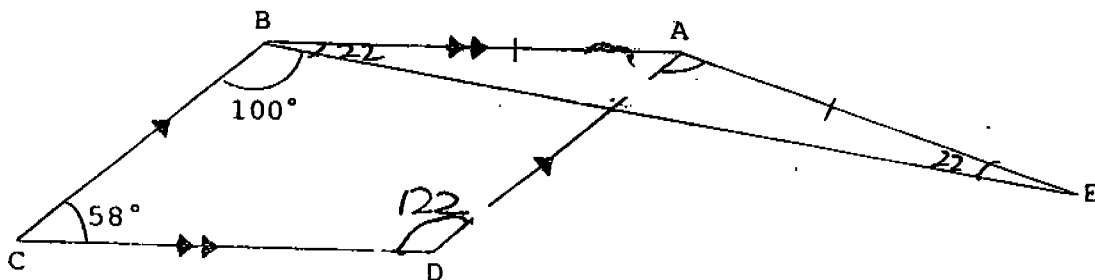
Answer: \_\_\_\_\_ (2)

38.  $\frac{13}{20}$  of the student population travel to school by bus,  $\frac{1}{5}$  of the remainder by car and the rest by other means of transport. What fraction of the students travel by other means of transport?

Answer: \_\_\_\_\_ (2)

39. In the figure below, ABCD is a parallelogram.

Find  $\angle DAE$ .



Answer: \_\_\_\_\_ (3)



40. There are some people in a hall.  $\frac{2}{3}$  of them are men,  $\frac{1}{4}$  of the remainder are women and the rest are children. Find the number of people in the hall if there are 87 children.

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

41. Seethi and Raju saved \$3360 altogether. For every \$5 that Seethi saved, Raju saved \$7. How much more did Raju save than Seethi?

Answer: \_\_\_\_\_ (3)

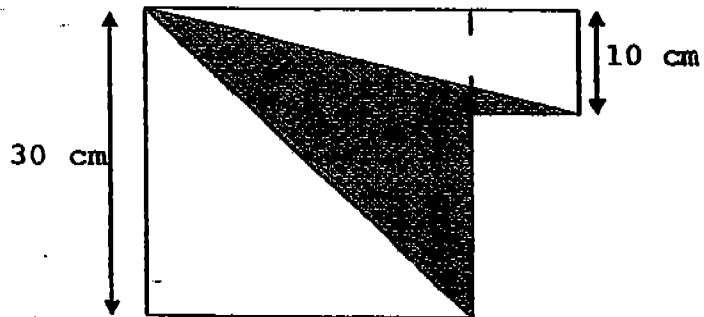
42. Alan has a sum of money which is 60% of Bala's sum of money. Bala's sum is 60% of Chandra's. If Chandra gives Alan \$80, Chandra will have the same amount of money as Bala. How much money do they have altogether?

Answer: \_\_\_\_\_ (4)

43. The total cost of a bag and a dress is \$56. The total cost of 8 such bags and 5 such dresses is \$376. Lilian pays for 3 bags and 2 dresses with three \$50 notes.
- a) What is the cost of 3 bags and 2 dresses?  
b) How much change will Lilian receive?

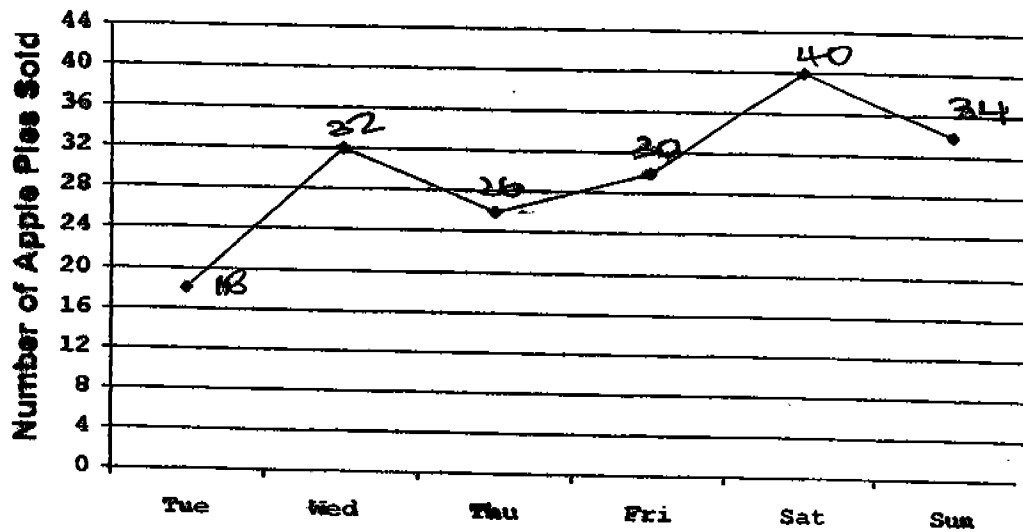
Answer: a) \_\_\_\_\_ (3)  
b) \_\_\_\_\_ (1)

44. The figure below is made up of 2 squares. Find the area of the shaded parts.



Answer: \_\_\_\_\_ (4)

45. The graph below shows the number of apple pies sold by Mrs Lek from Tuesday to Sunday.



- (a) How many apple pies did she sell from Tuesday to Sunday?
- (b) Mrs Lek was able to earn money after selling the 8<sup>th</sup> pie each day. How much did she earn for the six days if she earned \$4 for every additional apple pie sold after the 8<sup>th</sup> pie?

Answer: a) ..... (1)

b) ..... (3)

46. The average weight of 3 wooden blocks A, B and C is 3.8 kg. Block A is twice as heavy as Block B. Block B is 1 200 g heavier than Block C. What is the weight of Block C?

Answer: \_\_\_\_\_ (4)

47. A rectangular container has a square base of sides 10 cm. It weighs 2.5 kg when it is  $\frac{1}{3}$  filled with water and weighs 2 kg when it is  $\frac{2}{3}$  filled with water.
- a) What is the weight of the container when it is completely filled with water?
- b) If 1 cm<sup>3</sup> of water weighs 1 g, find the height of the container.

Answer: a) \_\_\_\_\_ (3)

b) \_\_\_\_\_ (2)

48. A shopkeeper sold  $\frac{1}{3}$  of the amount of sugar he had and 10 kg on the first day. The next day, he sold  $\frac{1}{3}$  of the remainder. If he sold 54 kg of sugar on the third day and had 6 kg of sugar left, what was the original weight of the packet of sugar?

Answer: \_\_\_\_\_ (5)

- 49) The ratio of the number of oranges in Box X to the number of oranges in Box Y was 7 : 3. When 195 oranges from Box X were transferred to Box Y, the new ratio of the number of oranges in Box X to the number of oranges in Box Y became 1 : 4. If 75% of the oranges in Box Y were sold, what percentage of the oranges left were in Box X?

Answer: \_\_\_\_\_ (5)



50. 30% of the clothes in Mrs Khoo's boutique were T-shirts and the rest were blouses. Each T-shirt cost \$25 and each blouse cost  $\frac{2}{5}$  more than each T-shirt. Mrs Khoo paid \$1 280 for all the T-shirts and blouses. If she sold each blouse for \$62, how much money could she earn from the sale of all the blouses?

Answer: \_\_\_\_\_ (5)

☺ End of Paper ☺

**Please Check Carefully**

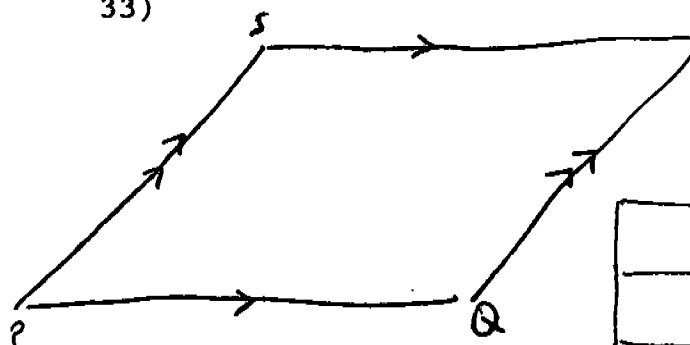
Setters: Mdm Denise Jung, Ms Wendy Lye and Mr Azman

NANYANG PRIMARY SCHOOL  
 SECOND SEMESTRAL EXAMINATION 2004  
 PRIMARY 5 MATHEMATICS

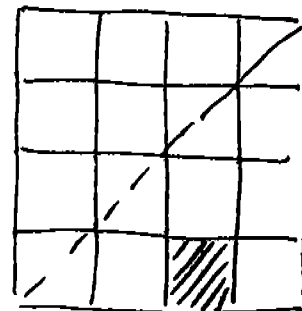
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- |      |          |                              |
|------|----------|------------------------------|
| 1) ? | 27) 840  | 45) a) 180 pies    b) \$ 528 |
| 2) 4 | 28) 3530 | 46) 1.95 kg                  |
| 3) 4 | 29) 2    | 47) a) 4 kg        b) 30 cm  |
| 4) 2 | 30) 900  | 48) 150 kg                   |
| 5) 1 | 31) 80   | 49) 50%                      |
| 6) 1 | 32) 132  | 50) \$ 756                   |

- 7) 4  
 8) 3  
 9) 3  
 10) 4  
 11) 4  
 12) 3  
 13) 4  
 14) 2  
 15) 1



34)



16) Six million, five hundred and twenty-three thousand and forty.

- |           |                              |
|-----------|------------------------------|
| 17) 77    | 35)                          |
| 18) 1/100 | 36) \$ 11.60                 |
| 19) 52.5  | 37) 30 pens                  |
| 20) 16    | 38) 7/25                     |
| 21) 9     | 39) 78°                      |
| 22) 240   | 40) 348 people               |
| 23) 12    | 41) \$ 560                   |
| 24) 30    | 42) \$ 392                   |
| 25) 48    | 43) a) \$ 144        b) \$ 6 |
| 26) 9     | 44) 350 cm <sup>2</sup>      |