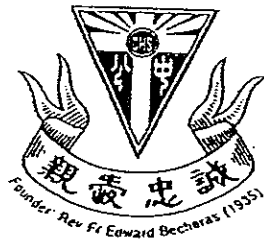


Name : \_\_\_\_\_ ( )

Class : P 5 \_\_\_\_\_



**CATHOLIC HIGH SCHOOL**

**PRIMARY FIVE**

**END OF YEAR EXAMINATION**

**6<sup>TH</sup> October 2008**

**MATHEMATICS**

**PAPER 1**

**(BOOKLET A)**

Total Time for Booklets A and B: 50 min

**INSTRUCTIONS TO CANDIDATES**

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Shade your answers in the Optical Answer Sheet (OAS) provided.

You are not allowed to use a calculator.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 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 correct oval on the Optical Answer  
Sheet. ( 20 marks )

---

1. 3 ones, 50 hundredths and 2 thousandths is \_\_\_\_\_.

- (1) 0.352
  - (2) 3.052
  - (3) 3.502
  - (4) 3.520
- 

2. What is the value of the digit 7 in 237 092?

- (1) 7
  - (2) 70
  - (3) 700
  - (4) 7000
- 

3. The population of a village is 65 098.

Express this number to the nearest hundred.

- (1) 65 000
  - (2) 65 100
  - (3) 66 000
  - (4) 66 100
- 

4. Express  $2\frac{1}{4}$  as a percentage.

- (1) 0.225%
  - (2) 2.25%
  - (3) 22.5%
  - (4) 225%
- 

(Go to the next page)

5. Find the ratio of  $\frac{1}{2}$  hours to 50 minutes.

- (1) 3 : 5
- (2) 5 : 3
- (3) 5 : 6
- (4) 6 : 5

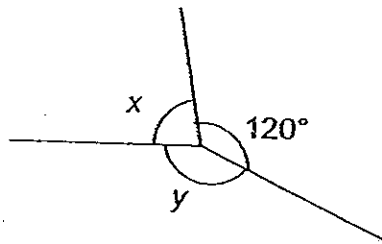
6. Express 20 cm as a percentage of 5 m.

- (1) 2 %
- (2) 20 %
- (3) 40 %
- (4) 4 %

7. Peter poured 5.2 <sup>l</sup> of water into some glasses, each of a capacity of 330 <sup>ml</sup>. What is the maximum number of glasses he can fill?

- (1) 14
- (2) 15
- (3) 16
- (4) 17

8. Given that  $\angle x$  is half the size of  $\angle y$ , find  $\angle y$ .



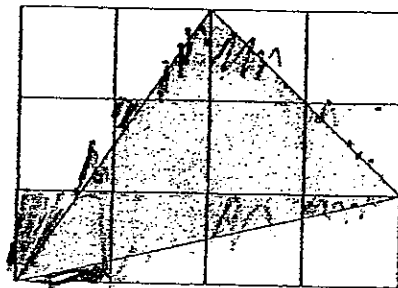
- (1)  $80^\circ$
- (2)  $120^\circ$
- (3)  $160^\circ$
- (4)  $240^\circ$

(Go to the next page)

9. The average mass of 5 girls is 36 kg. Find their total mass.

- (1) 108 kg
  - (2) 144 kg
  - (3) 150 kg
  - (4) 180 kg
- 

10. The figure is made up of 12 equal squares joined together. What fraction of the figure is shaded?



- (1)  $\frac{1}{6}$
  - (2)  $\frac{1}{12}$
  - (3)  $\frac{5}{12}$
  - (4)  $\frac{1}{4}$
- 

11. Kenny gave 25% of his money to his mother and saved  $\frac{1}{5}$  of the remainder.

If he saved \$300, how much did he give to his mother?

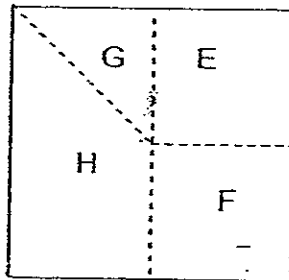
- (1) \$240
  - (2) \$500
  - (3) \$1200
  - (4) \$1500
- 

(Go to the next page)

12. The average cost of a few books was \$8. After a book which costs \$32 was added, the average cost becomes \$12. How many books are there now?

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

13. The figure below is a square made up of 4 parts; E, F, G and H. E and F are squares that form 50% of the figure. Which of the following 2 parts will add up to form  $\frac{5}{8}$  of the figure?



- (1)  $G + E$
- (2)  $G + F$
- (3)  $H + G$
- (4)  $H + E$

14. John spent 20% of his salary on a television set and 40% of his remaining money on a DVD player. If he was left with \$1800, how much was his salary.

- (1) \$2250
- (2) \$3750
- (3) \$4500
- (4) \$5625

(Go to the next page)

15. Given that  $\frac{2}{5}$  of Henry's stickers is equal to  $\frac{3}{4}$  of Jason's stickers, what fraction of the total number of stickers is Jason's stickers?

(1)  $\frac{8}{23}$

(2)  $\frac{15}{23}$

(3)  $\frac{23}{8}$

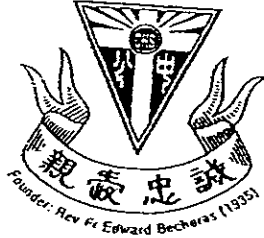
(4)  $\frac{23}{15}$

---

(Go to the next page)

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

Class : P 5 \_\_\_\_\_



**CATHOLIC HIGH SCHOOL**

**PRIMARY FIVE**

**END OF YEAR EXAMINATION**

**6<sup>th</sup> October 2008**

**MATHEMATICS**

**PAPER 1**

**(BOOKLET B)**

Total Time for Booklets A and B : 50 min

**INSTRUCTIONS TO CANDIDATES**

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Shade your answers in the Optical Answer Sheet (OAS) provided.

You are not allowed to use a calculator.

Total	Max
Mark	Mark
	<del>20</del> 20

Questions 16 to 25 carry 1 mark each. Write your answers in the space provided.  
For questions which require units, give your answers in the units stated. (10 marks)

Do not write  
in this space

16. Arrange these numbers from the largest to the smallest.

$$\frac{109}{1000}, 0.091, 0.901, \frac{91}{100}$$

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

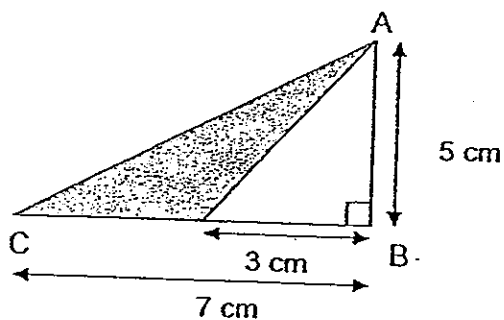
17.  $48 \times 22 = 23 \times 22 + 1 \times 22 + \underline{\hspace{2cm}} \times 22$ .

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

18. Express 84% as a fraction in its simplest form.

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

19. Find the shaded area of triangle ABC.



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

(Go to the next page)

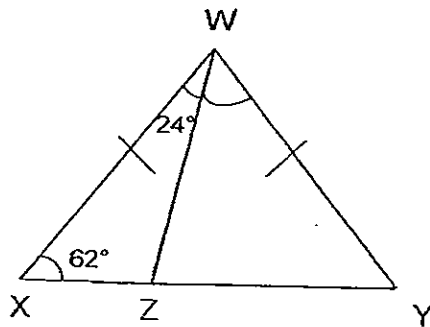


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20. Express  $\frac{12}{25}$  as a decimal.

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

21. WXY is an isosceles triangle and  $\angle WXY = 62^\circ$ .  $\angle XWZ = 24^\circ$ . Find  $\angle ZWY$ .



Ans: \_\_\_\_\_°

22. The length of a garden is 30 m. Its breadth is 12 m. Find the area of the garden.

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

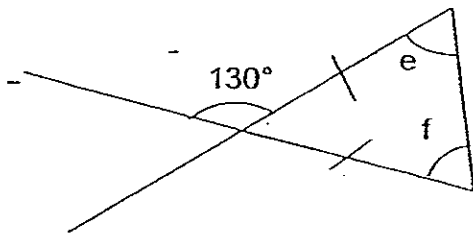
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23. Four copies of Reader digest cost \$10. How much will two dozen copies cost?

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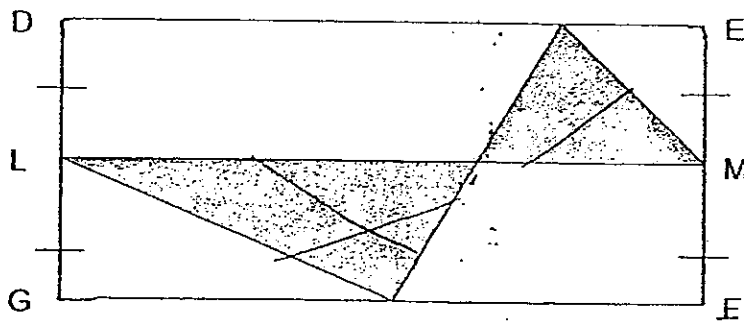
Ans: \$ \_\_\_\_\_

24. In the figure below,  $\angle e = \angle f$ . Find  $\angle e$ .



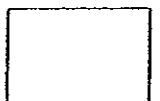
Ans: \_\_\_\_\_ °

25. In the rectangle DEFG, L and M are mid points of DG and EF respectively.



Express the shaded area as a fraction of rectangle DEFG.

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



Total marks for questions 16 to 25  
(Go to the next page)

Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

Do not write in this space

26.  $\frac{2}{3}$  of a number is 32. What is  $\frac{1}{2}$  of the number?

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

27. Express  $2\frac{7}{8}$  as a decimal, rounded off to 1 decimal place.

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

28. Alan, Ben and Colin like to collect stamps as a hobby. The table below shows the number of stamps each boy collected as the weeks progresses. From the pattern, which boy collected the most number of stamps by the end of week 6?

	Week 1	Week 2	Week 3	Week 4	Week 6
Alan	4	13	22	31	
Ben	8	16	24	32	
Colin	5	11	18	26	

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

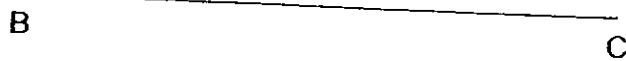
(Go to the next page)

29. Four pupils sat for a test. The maximum score of the test was 50 marks. Given that one pupil scored 10 marks, find the highest possible average score of all 4 pupils.

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

Do not write  
in this space

30. The figure below show the line BC. Draw a triangle in which  $\angle ABC$  is  $42^\circ$  and AB is 7 cm.



31. Janet and Louis shared the cost of a gift. Janet paid 35% of the cost. Louis paid \$90 more. How much did Louis pay?

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

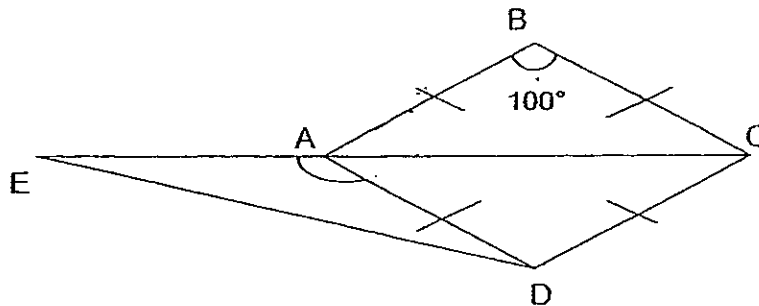
(Go to the next page)

32. Gary has 40% as many stickers as Henry and 50% less than what Ben has. If they have a total of 66 stickers, how many stickers does Henry have?

Do not write  
in this space

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

33. In the figure below, not drawn to scale, ABCD is a rhombus. Find angle  $\angle EAD$ .



Ans: \_\_\_\_\_°

34. Daniel had a sum of money at first for his savings. After his mother gave him another \$66, his savings increased by 30%. How much money did he have in his savings at first?

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

(Go to the next page)

35. The table below shows the number of storybooks borrowed by pupils in a class in the month of January. How many pupils borrowed 3 books or less in January?

No. of storybooks	0	1	2	3	4
No. of pupils	5	16	7	9	5

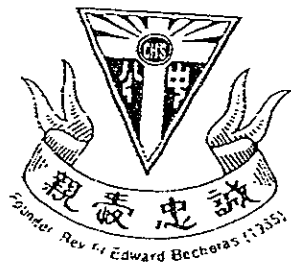
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Ans: \_\_\_\_\_

End of Paper 1

Name : \_\_\_\_\_ (      )

Class : P 5 \_\_\_\_\_



**CATHOLIC HIGH SCHOOL**

**PRIMARY FIVE**

**END OF YEAR EXAMINATION**

**6<sup>th</sup> October 2008**

**MATHEMATICS**

**PAPER 2**

Paper 1 Booklet A	20
Paper 1 Booklet B	20
Paper 2	60
Total Marks	100

Total Time: 1 h 40 min

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

**INSTRUCTIONS TO CANDIDATES**

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Show your working clearly as marks are awarded for correct working.

Write your answers in this booklet.

You are allowed to use a calculator.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

Do not write in this space

1. In a stadium of 3200 people, 800 are children and the rest are adults. How many percent more adults than children are there in the stadium?

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

2. Kathy painted  $\frac{3}{5}$  of a fence on Monday and another 25% of the remaining fence on Tuesday. What percentage of the fence has not been painted?

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

3. The sides of a triangle is in the ratio of 2 : 4 : 5. If the shortest side of the triangle is 6 cm, find the perimeter of the triangle.

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

(Go to the next page)



4. Mr. Lim bought prawns and  $\frac{1}{2}$  kg of fish from the supermarket. If 1 kg of fish cost \$11.80, how much did the prawns cost if he spend \$9.80 altogether?

Do not write  
in this space

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

5. There are 3300 men and 1700 women attending a concert. Both figures are corrected to the nearest hundred. Find the greatest possible difference between these 2 numbers.

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

(Go to the next page)

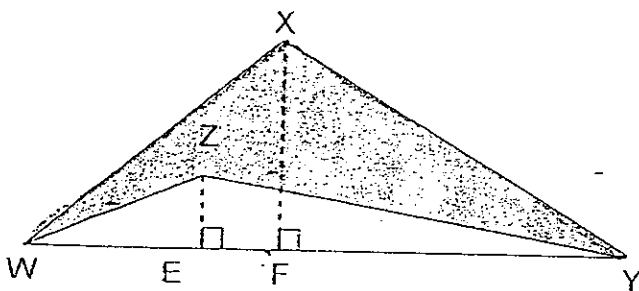
For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated

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

(50 marks)

Do not write  
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6. The area of the shaded figure WXYZ is  $54\text{cm}^2$ . Find the area of triangle WXY given that ZE is  $\frac{1}{4}$  of XF.



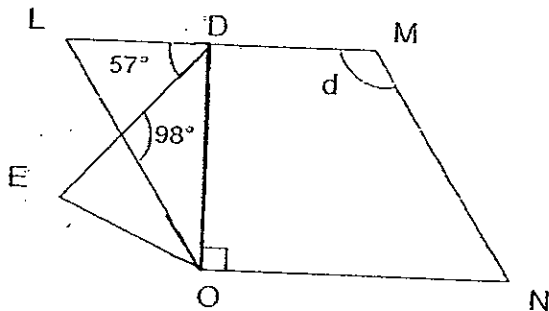
Ans: \_\_\_\_\_ [3]

7. The ratio of the number of goldfish to the number of guppies is  $3 : 5$  in a tank. If 34 more goldfish are added into the tank, the number of goldfish will be 4 times the number of guppies. How many guppies are there in the tank?

Ans: \_\_\_\_\_ [3]

(Go to the next page)

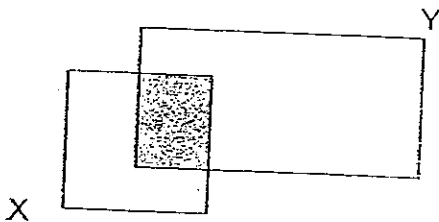
8. LMNO is a parallelogram and DEO is a triangle. Find  $\angle d$ .



Ans: \_\_\_\_\_ [ 3 ]

Do not write  
in this space

9. The area of square X is  $\frac{1}{3}$  the area of rectangle Y. After the shaded area is being cut out, the unshaded area of rectangle Y becomes 4 times the unshaded area of square X. Given that the shaded area is  $27 \text{ cm}^2$ , find the area of the square.



Ans: \_\_\_\_\_ [ 3 ]

(Go to the next page)

10. A bag of chocolates was shared among 36 pupils. 9 of them gave all their chocolates to the rest of the pupils. As a result, the rest of the pupils received 3 more chocolates each. How many chocolates were there in the bag at first?

Do not write  
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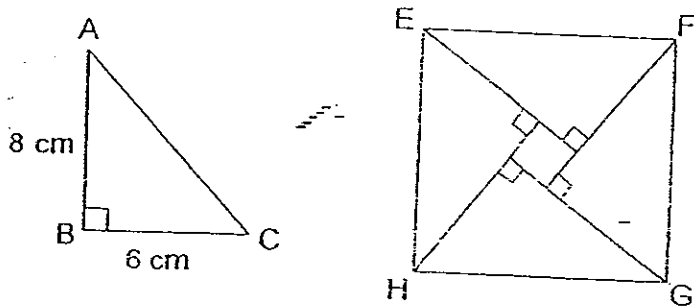
Ans: \_\_\_\_\_ [3]

11. The ratio of Julian's money to Mandy's money is 3 : 5. The ratio of Karen's money to Julian's money is 1 : 4. If Karen had \$30, find the total sum of money shared by the three children.

Ans: \_\_\_\_\_ [3]

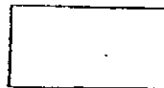
(Go to the next page)

12. Right angled triangle ABC has a height and base of 8 cm and 6 cm respectively. 4 such similar triangles are used to form the square EFGH. Find the side of the square EFGH.

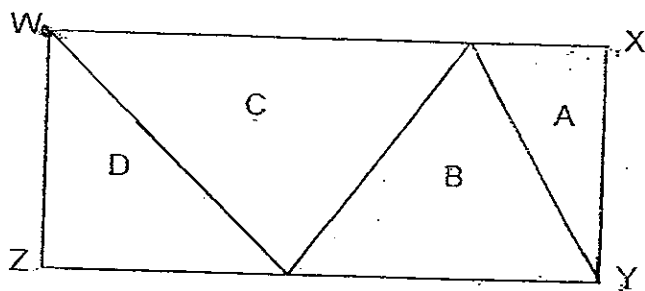


Ans: \_\_\_\_\_ [ 4 ]

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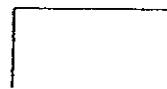


13. The figure below shows a rectangle WXYZ divided into 4 parts, A, B, C and D. The ratio of area A to that of area B is 1 : 3 and the ratio of the area B to that of area C is 2 : 3. If WZ is 6 cm and the area of D is  $30 \text{ cm}^2$ , what is the area of the rectangle WXYZ?



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

(Go to the next page)



14. The tickets for a show are priced at \$12 and \$8. The number of \$12 tickets available is  $1\frac{1}{2}$  times the number of \$8 tickets.  $\frac{2}{3}$  of the twelve-dollar tickets and all the eight-dollar tickets were sold. The ticket sales amounted to \$6400. How much more would have been collected if all the tickets were sold?

Do not write  
in this space

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

(Go to the next page)

15. Richard spent \$750 of his salary on a washing machine and spent  $\frac{3}{5}$  of his remaining money on a refrigerator. Given that he was left with  $\frac{1}{4}$  of his original sum, find his salary at first.

Do not write  
in this space

Ans: \_\_\_\_\_ [ 5 ]

(Go to the next page)



16. Aaron has thrice as many marbles as Lucy. After Aaron lost 45 marbles and Lucy bought another 6 more marbles. Aaron still has 3 marbles more than Lucy. How many marbles did Lucy have at first?

Do not write  
in this space

Ans: \_\_\_\_\_ [ 5 ]

(Go to the next page)



17. NHL delivery company charges \$7 for goods delivered on time and \$5 for goods delivered late. In 2007, NHL collected \$5430. For every 27 goods delivered, 23 were delivered on time and 4 were delivered late.

- (a) What was the total number of goods delivered on time?
- (b) How much less money did NHL collect in 2007 due to the late delivery of goods?

Do not write  
in this space

Ans: a) \_\_\_\_\_ [ 3 ]

Ans: b) \_\_\_\_\_ [ 2 ]

(Go to the next page)

18.  $\frac{3}{5}$  of Joel's savings is equal to  $\frac{2}{7}$  of Mathew's savings. The difference in their saving is equal to  $\frac{1}{2}$  of Ben's savings. Joel saves \$24 less than Ben.
- (a) Find the ratio of Joel's savings to Mathew's savings to Ben's savings
- (b) Find the total amount of saving of the 3 boys.

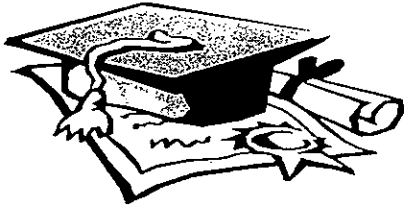
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Ans: a) \_\_\_\_\_ [2]

Ans: b) \_\_\_\_\_ [3]



- End of Paper -



# ANSWER SHEET

EXAM PAPER 2008

SCHOOL : CATHOLIC HIGH PRIMARY SCHOOL  
SUBJECT : PRIMARY 5 MTHEMATICS

TERM : SA 2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
3	4	2	4	1	4	2	3	4	3	2	2	4	2	1

16)  $\frac{91}{100}$ ,  $0.901$ ,  $\frac{109}{100}$ ,  $0.091$

17) 24

18)  $\frac{21}{25}$

19) 10

20) 0.48

21) 32

22) 360

23) 60

24) 65

25)  $\frac{1}{4}$

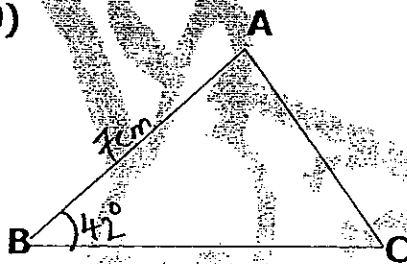
26) 24

27) 2.9

28) Alan

29) 40

30)



31) \$195

32) 30

33) 140°

34) \$220

35) 37

Paper 2

1)  $3200 - 800 = 2400$  adults  
 $2400 - 800 = 1600$   
 $\frac{1600}{800} \times 100 = 200\%$

2) Monday =  $\frac{3}{5} = 60\%$   
 Remaining =  $100 - 60 = 40\%$   
 Tuesday =  $\frac{25}{100} \times 40 = 10\%$   
 $40 - 10 = 30\%$

3)  $2 + 4 + 5 = 11$   
 $11u \rightarrow 6 \times 11 = 33cm$   
 $\frac{11}{2} \quad 1$

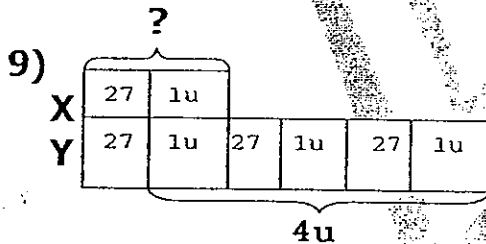
4)  $\$11.80 \div 2 = \$5.90$   
 $\$9.80 - \$5.90 = \$3.90$

5)  $3349 - 1650 = 1699$

6) Area of  $\triangle WZY = \frac{1}{2} \text{ bash} \times h$   
 Area of  $\triangle WXH = \frac{1}{2} \text{ bash} \times 4h$   
 $\frac{1}{2} \text{ bash} \times 4h - \frac{1}{2} \text{ bash} \times h = 54$   
 $\frac{1}{2} \text{ bash} \times 3h = 54$   
 $\frac{1}{2} \text{ bash} \times h = 54 \div 3 = 18$   
 Area of  $\triangle WXY = \frac{1}{2} \text{ bash} \times 4h$   
 $= 18 \times 4 = 72cm^2$

7)  $17u \rightarrow 34$

8)  $\angle DLO = 98^\circ - 57^\circ = 41^\circ$   
 $\angle d = 180^\circ - 41^\circ = 139^\circ$



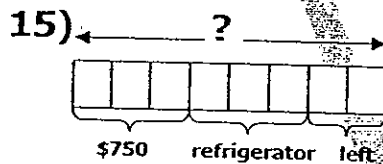
$1u = 27 + 27 = 54$   
 Area of square X =  $27 + 54 = 81cm^2$

10)  $36 - 9 = 27$   
 $27 \times 3 = 81$   
 $81 \div 9 = 9$   
 $39 \times 9 = 324$

$$\begin{array}{r}
 11) \text{ K : J} \quad \text{J : M} \\
 1 : 4 \quad 3 : 5 \\
 \underline{\times 3} \quad \underline{\times 3} \quad \underline{\times 4} \quad \underline{\times 4} \\
 3 : 12 \quad 12 : 20
 \end{array}$$

$$\begin{aligned}
 3+12+20 &= 35 \\
 3u &\rightarrow \$30 \\
 1u &\rightarrow \$30 \div 3 = \$10 \\
 35u &\rightarrow 35 \times \$10 = \$350
 \end{aligned}$$

$$\begin{array}{r}
 13) \text{ A : B} \quad \text{B : C} \\
 1 : 3 \quad 2 : 3 \\
 = 2 \quad 6 \quad 6 \quad 9 \\
 D+B=A+C=2+9=11 \\
 D=11-B \\
 =11-6=5 \\
 5u \rightarrow 30\text{cm}_2 \\
 1u \rightarrow 30 \div 5 = 6\text{cm}_2 \\
 \text{Area of rect. WXYZ} \\
 =2+6+9+5=22u \\
 =22 \times 6\text{cm}_2 = 132\text{cm}_2
 \end{array}$$

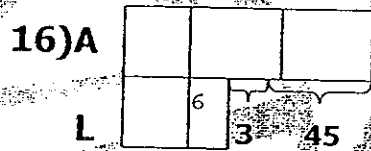


$$\begin{aligned}
 3u &\rightarrow \$750 \\
 1u &\rightarrow \$750 \div 3 = \$250 \\
 8u &\rightarrow \$250 \times 8 = \$2000
 \end{aligned}$$

$$\begin{aligned}
 12) \frac{1}{2} \times 6\text{cm} \times 8\text{cm} &= 24\text{cm}_2 \\
 24\text{cm}_2 \times 4 &= 96\text{cm}_2 \\
 2\text{cm} \times 2\text{cm} &= 4\text{cm}_2 \\
 96\text{cm}_2 + 4\text{cm}_2 &= 100\text{cm}_2 \\
 100\text{cm}_2 &= 10\text{cm} \times 10\text{cm} \\
 \text{side} &= 10\text{cm}
 \end{aligned}$$

$$\begin{array}{r}
 14) \$12 : \$8 \\
 1\frac{1}{2} : 2 \\
 = 3 : 2
 \end{array}$$

$$\begin{aligned}
 \text{Sold} &= \frac{2}{3} \times 3 = 2 \\
 \$12 + \$8 &= \$30 \\
 \$6400 - \$20 &= \$320 \\
 2u &\rightarrow 320 \\
 1u &\rightarrow 320 \div 2 = 160 \\
 160 \times \$12 &= \$1920
 \end{aligned}$$



$$\begin{aligned}
 2u &\rightarrow 6+3+45=54 \\
 1u &\rightarrow 54 \div 2 = 27
 \end{aligned}$$

17) on time : late

$$\begin{array}{r} \text{a) } 23 : 4 \\ \underline{\times \$7} \quad \underline{\times \$5} \\ \$161 + \quad \$20 = \$181 \end{array}$$

$$\begin{array}{l} \$5430 \div \$181 = \$30 \\ 23 \times 30 = 690 \end{array}$$

$$\begin{array}{l} \text{b) } 4 \times 30 = 120 \\ \$7 - \$5 = \$2 \\ 120 \times \$2 = \$240 \end{array}$$

18) a)  $J \rightarrow 3/5 = 6/10$   
 $M \rightarrow 2/7 = 6/21$   
 $21 - 10 = 11$   
 $B \rightarrow 11 \times 2 = 22$

$$\begin{array}{l} \underline{J : M : B} \\ = 10 : 21 : 22 \end{array}$$

$$\begin{array}{l} \text{b) } 10 + 21 + 22 = 53 \\ 22 - 10 = 12 \\ 12u \rightarrow \$24 \\ 1u \rightarrow \$24 \div 12 = \$2 \\ 53u \rightarrow 53 \times \$2 = \$106 \end{array}$$