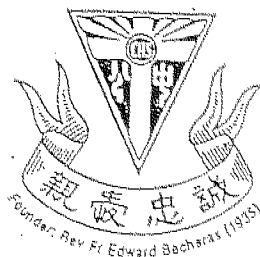


Name : _____ ()

3 March 2004

Class : P 5 _____



CATHOLIC HIGH SCHOOL

PRIMARY FIVE

CONTINUAL ASSESSMENT 1

MATHEMATICS

EM1 / EM2

BOOKLET A

15 questions

25 marks

Total Time For Booklets A and B : 2 h 15 min

INSTRUCTIONS TO CANDIDATES

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

Follow all instructions carefully.

Answer all questions.

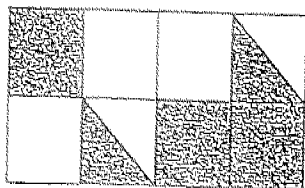
Questions 1 to 5 carry 1 mark each. Questions 6 to 15 carry 2 marks each.

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.
(25 marks)

1. In 3 802 471, the digit 8 is in the _____ place.

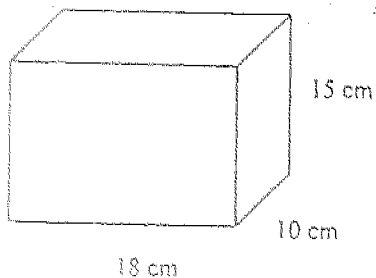
- (1) thousands
- (2) ten thousands
- (3) hundred thousands
- (4) millions

2. What fraction of the following rectangle is shaded?



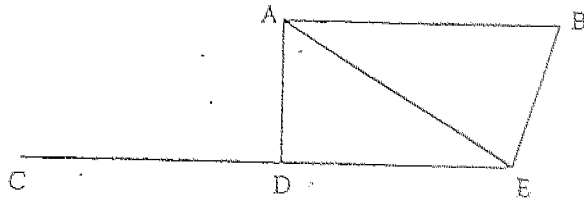
- (1) $\frac{1}{2}$
- (2) $\frac{1}{3}$
- (3) $\frac{2}{5}$
- (4) $\frac{3}{8}$

3. The volume of the rectangular tank shown below is _____ cm^3 .



- (1) 180
- (2) 270
- (3) 1800
- (4) 2700

4. In the figure below, CE is perpendicular to _____.

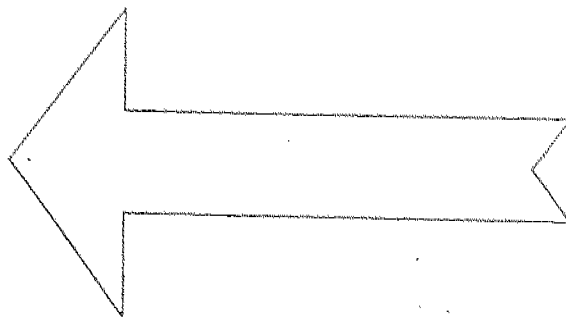


- (1) AB
- (2) AD
- (3) AE
- (4) BE

5. Find the sum of 20 142 and 43 442 and round off the answer to the nearest hundred.

- (1) 63 000
- (2) 63 500
- (3) 63 600
- (4) 64 000

6. There are _____ pairs of parallel lines in the figure below.



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

7. 999 less than half a million is _____.

- (1) 49 001
 - (2) 99 001
 - (3) 499 001
 - (4) 999 001
-

8. Which one of the following is bigger than $\frac{3}{5}$ but smaller than $1\frac{1}{4}$?

- (1) $\frac{5}{12}$
 - (2) $\frac{9}{10}$
 - (3) $1\frac{2}{5}$
 - (4) $1\frac{2}{3}$
-

9. Peter ate $\frac{1}{6}$ of a pizza and took home $\frac{2}{3}$ of the pizza. What fraction of the pizza was left?

- (1) $\frac{1}{6}$
 - (2) $\frac{1}{3}$
 - (3) $\frac{2}{9}$
 - (4) $\frac{5}{6}$
-

10. $10\ 847 \div 100 =$ _____

- (1) 10 tens + 8 ones + 4 hundredths + 7 thousandths
 - (2) 1 ten thousand + 8 hundreds + 4 tens + 7 ones
 - (3) 1 hundred + 8 ones + 4 tenths + 7 hundredths
 - (4) 1 thousand + 8 tens + 4 ones + 7 tenths
-

11. A rectangular tank measures 80 cm by 20 cm by 20 cm. It was filled with 12 000 cm³ of water. The tank needs another _____ cm³ of water to be completely filled.

- (1) 1600
 - (2) 20 000
 - (3) 32 000
 - (4) 240 000
-

12. What is the missing number in the box below?

$$25\ 986 \times 98 = 25\ 986 \times 100 - 25\ 986 \times \square$$

- (1) 1
 - (2) 2
 - (3) 98
 - (4) 198
-

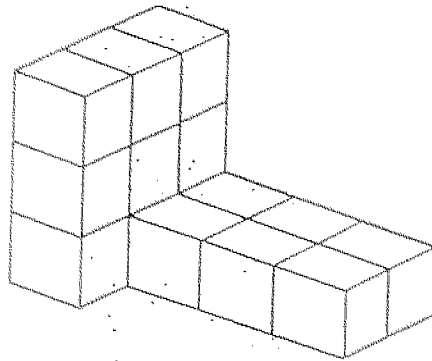
13. A basket of carrots and potatoes weigh $2\frac{1}{4}$ kg. If the potatoes weigh $1\frac{2}{5}$ kg and the carrots weigh $\frac{2}{5}$ kg, what is the weight of the basket?

- (1) $\frac{2}{5}$ kg
 - (2) $\frac{9}{20}$ kg
 - (3) $1\frac{1}{5}$ kg
 - (4) $1\frac{3}{5}$ kg
-

14. At a sale, storybooks were sold at either 1 for \$5.50 or 5 for \$20. Weimin spent \$62 buying some storybooks at the sale. How many books did he buy?

- (1) 6
 - (2) 11
 - (3) 14
 - (4) 15
-

15. The solid below is fully dipped in a pail of paint and then taken out. There will be _____ cubes with **only** three sides painted.



- (1) 8
 - (2) 12
 - (3) 13
 - (4) 14
-

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

Do not write
in this space

(20 marks)

16. Find the value of 8032×55 .

Answer : _____

17. Find the value of $16 + 14 \div 2 \times 3 \times (2 \times 2) - 10$.

Answer : _____

18. Find the value of $\frac{3}{8} + \frac{3}{8}$. Leave your answer in the simplest form.

Answer : _____

19. Find the total weight of 3 bags that weigh $\frac{2}{5}$ kg each. Express your answer as a mixed number.

Answer : _____ kg

SCORE

Do not write
in this space

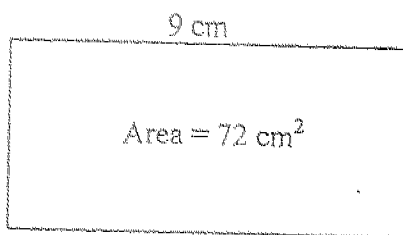
20. Express $\frac{20}{6}$ as a mixed number in its lowest term.

Answer : _____

21. Find the volume of a cube of side 9 cm.

Answer : _____ cm^3

22. Find the perimeter of the figure shown below.

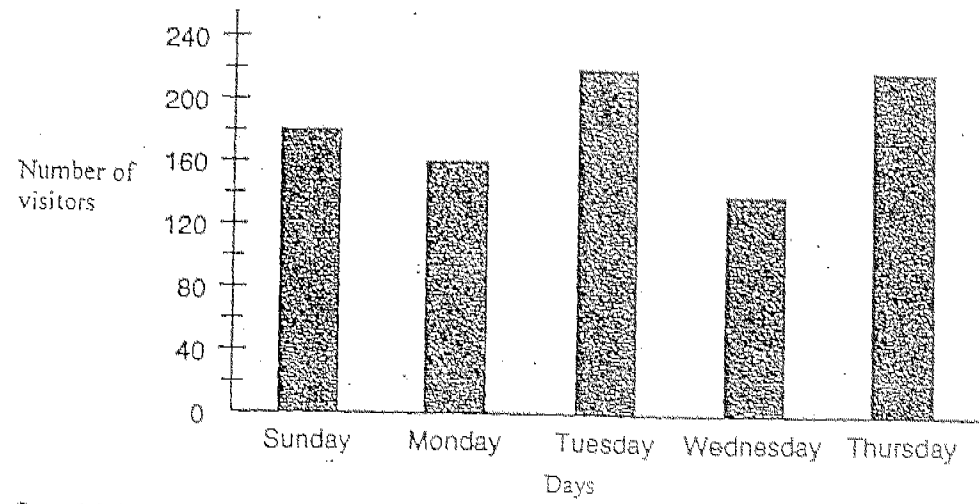


Answer : _____ cm

SCORE

Do not write in this space

Study the graph below carefully and answer Questions 23 and 24.
The graph shows the number of people attending a book fair over a period of 5 days.



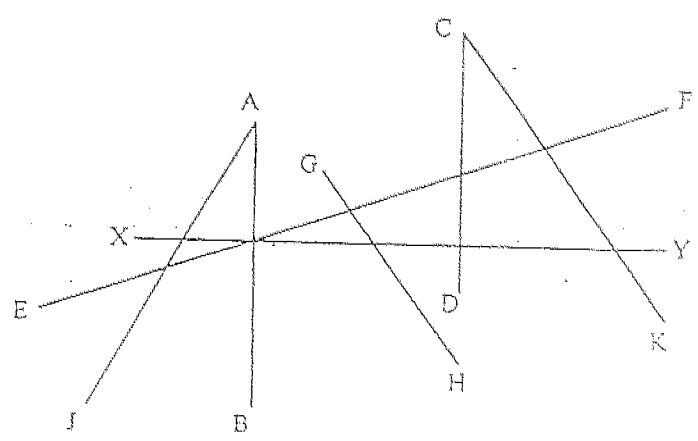
23. On which day(s) was/were the number of visitors more than 180?

Answer : _____

24. What was the increase in attendance from Wednesday to Thursday?

Answer : _____ people

25. Name one pair of parallel lines found in the diagram below.



Answer : _____ //

SCORE

Do not write
in this space

26. How many letter(s) below is/are made up of both perpendicular lines and parallel lines?

T E A C H

Answer : _____

27. In a class of 36 pupils, the number of pupils who wear glasses is 3 times the number of pupils who do not wear glasses. How many pupils wear glasses in the class?

Answer : _____ pupils

28. If 3 boys have $\frac{2}{7}$ of a jigsaw puzzle each, what fraction of the jigsaw puzzle is missing?

Answer : _____

29. Susan had 2 m. of ribbon. She used $\frac{1}{3}$ m of the ribbon to tie a parcel and $\frac{1}{5}$ m of it to tie a present. What was the length of the ribbon she had left?

Answer : _____ m

SCORE

Do not write
in this space

Study the table below carefully and answer Questions 30 and 31.
The table below shows the number of students registering for 1 to 4 events at a swimming carnival.

Number of events registered for	1	2	3	4
Number of students	?	33	47	59

30. How many students registered for at least 3 events?

Answer : _____ students

31. If a total of 150 students registered for events at the swimming carnival, how many students registered for 1 event only?

Answer : _____ students

32. Complete the number pattern below.

6, 16, 32, 42, 84, _____, _____

Answer : _____, _____

33. What is the biggest 5-digit odd number that can be formed using the digits 8, 0, 2, 9 and 6?

Answer : _____

SCORE

34. How many 2-cm cubes will be needed to fill up a box with dimensions 5 cm by 5 cm by 5 cm?

Do not write in this space

Answer : _____ cubes

35. Compare the two solid figures below.

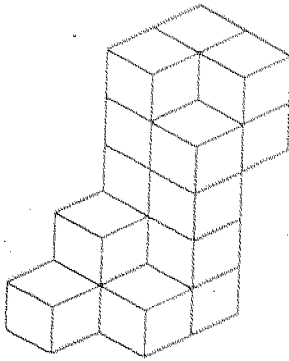


Figure 1

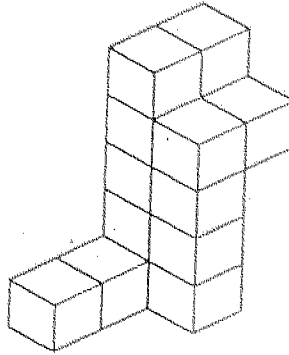


Figure 2

How many unit cubes have been removed from Figure 1 to form Figure 2?

Answer : _____ cubes

SCORE

For Questions 36 to 50, show your working clearly in the space below each question and write your answers in the spaces provided.
The number of marks available is shown in brackets [] at the end of each question or part-question.
(55 marks)

36. Miss Lim bought a walnut cake and 6 chocolate cakes for \$102. If the walnut cake cost \$12, find the cost of each chocolate cake.

Do not write
in this space

Answer : _____ [2]

37. Mr Tan bought 12 cartons of oranges for Chinese New Year. The oranges were on sale at \$6.80 for 3 cartons. How much did Mr Tan pay?

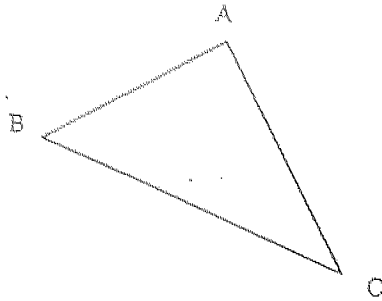
Answer : _____ [2]

SCORE

Do not write
in this space

38. In the triangle below, AB is perpendicular to AC.

- (a) Construct the line DC which is parallel to AB. [1]
- (b) What is the other pair of perpendicular lines found in the diagram below after the construction of the line DC?



Answer : (b) _____ [1]

39. (a) What is the missing number in the box below? Leave your answer as a decimal.

$$\frac{3}{100} + 1\frac{1}{4} = \boxed{} \times 4$$

- (b) Set A and Set B are decimals with the same pattern. Study the pattern in Set A and use the information to complete the number pattern in Set B.

Set A : 1.25, 1.55, 1.5, 1.8, 1.75

Set B : 23.64, _____, 23.89, _____, 24.14

Answer : (a) _____ [1]

(b) _____ [1]

_____ [1]

SCORE

Do not write
in this space

40. Milly Milk is only sold in packs of 6 cans. Each can has 270 ml of milk.
Mrs Muthu requires 3.5 l of milk. How many packs of Milly Milk must she buy?

Answer : _____ [3]

41. Mr Tan had thrice as many apples as pears at his stall at first. After he sold 129
apples and threw away 8 rotten pears; he had only half as many apples as pears
left. How many pears did he have left?

Answer : _____ [3]

SCORE

42. Mary has 14 coins that add up to \$5.80. Some are 50-cent coins and the rest are 20-cent coins. How many 50-cent coins and how many 20-cent coins does Mary have?

Do not write
in this space

Answer : _____ and
_____ [4]

SCORE

Do not write
in this space.

43. A building occupies $\frac{2}{5}$ of a plot of land. $\frac{1}{3}$ of the land is used as a car park. A garden covers $\frac{2}{15}$ of the land. If the remaining vacant land is 40 m^2 , what is the area of the entire plot of land?

Answer : _____ [4]

SCORE

44. In a school, $\frac{3}{10}$ of the pupils are boys. There are 360 more girls than boys. How many teachers are there if the number of teachers is $\frac{1}{15}$ of the number of pupils?

Do not write
in this space

Answer : _____ [4]

SCORE

45. Use the information given in the table below to answer the questions that follow.

Type of Fruit	Cost per kg
Peaches	\$5.60
Grapes	\$6.20
Prunes	\$4.40
Lemons	\$3.95

- (a) Sarah bought 4 kg of prunes, 2 kg of grapes and 1 kg of peaches. How much change would she receive if she gave the fruit seller a \$50 note?
- (b) Mr Lim bought 4 kg of lemons and 1 kg of grapes. How much prunes would he be able to buy with the same amount of money?

Answer : (a) _____ [2]

(b) _____ [2]

SCORE

Do not write
in this space

Do not write
in this space

46. A rectangular tank, 20 cm long and 15 cm wide was half-filled with water. Joseph found out that he needed another 5 cups of water to fill up the tank completely. Each cup contained 600 cm^3 of water.

- (a) What was the volume of the rectangular tank?
- (b) What was the height of the tank?

Answer : (a) _____ [2]

(b) _____ [2]

SCORE

47. A picture 40 cm long is mounted on a cardboard 45 cm by 42 cm. If the area of the cardboard that is not covered by the picture is 490 cm^2 , find the perimeter of the picture.

Do not write
in this space

Answer : _____ [5]

SCORE

Do not write
in this space

48. There are 72 apples altogether in basket A and B. When half of the apples in basket A are transferred to basket B, the number of apples in basket B becomes 5 times as many as those in basket A. Find the number of apples in each basket originally.

Answer : _____ and
_____ [5]

SCORE

Do not write
in this space

49. A box contains marbles of 3 different colours. The number of red marbles is $\frac{3}{8}$ of the number of blue marbles. The number of blue marbles is 2 times that of the green marbles.

- (a) Express the number of green marbles as a fraction of the total number of marbles in the box.
- (b) If there are 150 red marbles, how many blue marbles must be changed to green ones so that there is an equal number of blue and green marbles?

Answer : (a) _____ [2]

(b) _____ [3]

SCORE

Do not write
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50. John makes 220 pies more than Sam daily. Everyday, each of them sells 160 pies to a shop and the rest of the pies to a canteen. After a few days, John sold 6240 pies to the canteen whereas Sam only sold 3600 pies to the canteen.

- (a) How many days did John take to sell 6240 pies to the canteen?
- (b) How many pies does John make daily?

Answer : (a) _____ [3]

(b) _____ [2]

SCORE

Catholic High School (Pri)
Answer Key P5 Maths CA1 2004

CA1

- | | | | |
|-----|----------------------|----------|------------------------|
| 1. | 3 | (36) | \$ 15 |
| 2. | 1 | | |
| 3. | 4 | (37) | \$ 27-20 |
| 4. | 2 | | |
| 5. | 3 | (38) | Ac ⊥ CD |
| 6. | 3 | | |
| 7. | 3 | | |
| 8. | 2 | (39) (a) | 0-32 |
| 9. | 1 | (b) | 23-94 24-19 |
| 10. | 3 | | |
| 11. | 2 | | |
| 12. | 2 | (40) | ≈ 3 packs |
| 13. | 2 | | |
| 14. | 3 | (41) | 42 pears |
| 15. | 1 | | |
| 16. | 441 760 | (42) | 10 50-cent coins |
| 17. | 90 | | 4 20-cent coins |
| 18. | $\frac{3}{4}$ | (43) | 300 m ² |
| 19. | $1\frac{1}{5}$ | (44) | 60 |
| 20. | $3\frac{1}{3}$ | (45) (a) | \$ 14-40 (b) 5 kg |
| 21. | 729 | | |
| 22. | 34 | (46) | 20 cm |
| 23. | Tuesday and Thursday | (47) | 150 cm |
| 24. | 80 | (48) | (24) A (48) B |
| 25. | AB // CD or GH // CK | (49) | $\frac{4}{15}$ (b) 100 |
| 26. | 2 | | |
| 27. | 27 | (50) (a) | 12 days |
| 28. | $\frac{1}{7}$ | (b) | 680 |
| 29. | $1\frac{7}{15}$ | | |
| 30. | 106 | | |
| 31. | 11 | | |
| 32. | 94, 188 | | |
| 33. | 86 209 | | |
| 34. | 8 | | |
| 35. | 3 | | |