



**Catholic High School**  
**End-of-Year Examination 2011**  
**Mathematics**  
**Primary 3**

Name : \_\_\_\_\_ (      )

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

Date: 27 October 2011

Duration: 1 h 45 min

Section A	40
Section B	40
Section C	20
Total Marks	100

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

There are 3 sections consisting of 18 pages in this paper.

Section A: Multiple-Choice Questions (MCQ)      20 x 2 marks

Section B: Open-Ended Questions      20 x 2 marks

Section C: Story Sums      5 x 4 marks



**SECTION A: Multiple-Choice Questions (20 x 2 marks)**

**For each of the question from 1 to 20, 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 (OAS).**

1. In 7489, the digit 8 is in the \_\_\_\_\_ place.

- (1) ones
- (2) tens
- (3) hundreds
- (4) thousands

(     )

2. Express 9 km 6 m in metres. The answer is \_\_\_\_\_.

- (1) 96 m
- (2) 906 m
- (3) 9006 m
- (4) 9060 m

(     )

3. Convert 3500 cents to dollars.

- (1) \$0.35
- (2) \$3.50
- (3) \$35.00
- (4) \$350.00

(     )

4. Jonathan has \$33. His sister has \$17.20 less than what he has.  
How much does his sister have?

- (1) \$15.20
- (2) \$15.80
- (3) \$16.20
- (4) \$16.80

(     )

5.  $5000 + 3 + 60 = \underline{\hspace{2cm}}$

- (1) 5036
- (2) 5063
- (3) 5360
- (4) 5630

(     )

6. Divide 79 by 9. What is the quotient?

- (1) 6
- (2) 7
- (3) 8
- (4) 9

(     )

7. Which fraction has the smallest value?

- (1)  $\frac{1}{2}$
- (2)  $\frac{1}{5}$
- (3)  $\frac{1}{8}$
- (4)  $\frac{1}{12}$

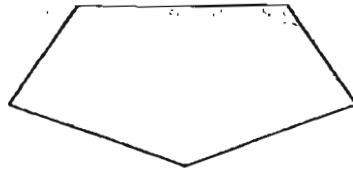
(     )

8. Find the sum of 211 and 799.

- (1) 588
- (2) 988
- (3) 1000
- (4) 1010

(     )

9. In the figure below, how many angles are greater than a right angle?



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

(     )

10. What is the missing numerator?

$$\frac{2}{3} = \frac{?}{15}$$

- (1) 8
- (2) 10
- (3) 12
- (4) 14

(     )

11. Multiply 570 by 4. The answer is \_\_\_\_\_.

- (1) 20 hundreds and 8 tens
- (2) 20 hundreds and 80 tens
- (3) 22 hundreds and 8 tens
- (4) 22 hundreds and 80 tens

(     )

12. Eunice had 7 boxes of books. Each box contained 28 books. How many books were left after Eunice sold 48 books?

- (1) 98
- (2) 148
- (3) 196
- (4) 244

(     )

13. Jeremy has 759 cards. His brother has 452 cards more than him. How many cards do they have altogether?

- (1) 1211
- (2) 1663
- (3) 1850
- (4) 1970

( )

14. Cindy ate  $\frac{1}{2}$  of a pizza. Doreen ate  $\frac{1}{8}$  of the same pizza. What fraction of the pizza was eaten altogether?

- (1)  $\frac{3}{8}$
- (2)  $\frac{5}{8}$
- (3)  $\frac{3}{14}$
- (4)  $\frac{7}{24}$

( )

15. 12 hundreds is \_\_\_\_\_ tens less than 1900.

- (1) 70
- (2) 178
- (3) 700
- (4) 1888

( )

16.  $18 \times 5 = 2 \times 3 \times$  \_\_\_\_\_.

- (1) 5
- (2) 8
- (3) 3
- (4) 15

( )

17. Thomas cut a cake into 11 equal pieces. He gave 4 pieces to his friend and 5 pieces to his brother. What fraction of his cake was left?

(1)  $\frac{2}{11}$

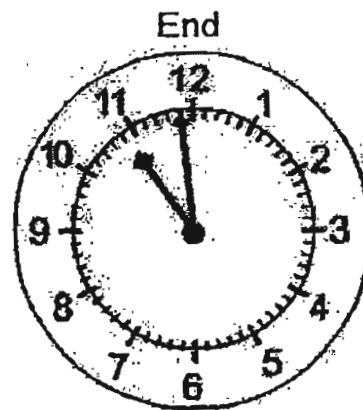
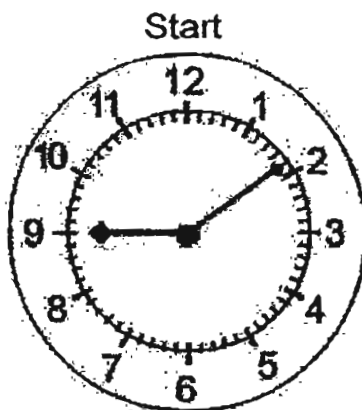
(2)  $\frac{4}{11}$

(3)  $\frac{5}{11}$

(4)  $\frac{9}{11}$

( )

18. The clocks below show the start of a lesson and the end of the lesson. How long was the lesson?



(1) 1 h 50 min

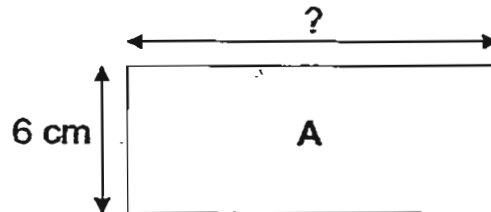
(2) 2 h 50 min

(3) 3 h 50 min

(4) 50 min

( )

19. If the perimeter of rectangle A is 42 cm, what is the length of the rectangle?



- (1) 15 cm  
(2) 18 cm  
(3) 30 cm  
(4) 36 cm
- ( )
20. Amanda is 6 years older than Churu. In 4 years' time, their total age is 34 years old. How old is Churu now?

- (1) 9 years old  
(2) 10 years old  
(3) 14 years old  
(4) 15 years old

( )

Please turn over to the next page.



**SECTION B: Open-ended Questions (20 x 2 marks)**

**Show your working clearly in the space provided and write the correct answers in the answer boxes provided.**

21. Complete the following number patterns.

1620, 1740, 1860, \_\_\_\_\_, 2100

Ans:

22. How many 20¢ coins can be exchanged for a dollar?

Ans:

23. Arrange the fractions in order, starting with the smallest.

$$\frac{2}{7}, \frac{11}{12}, \frac{2}{3}, \frac{5}{6}$$

Ans:

smallest

24. Use the digits below to form the greatest 4-digit number which is divisible by 5.

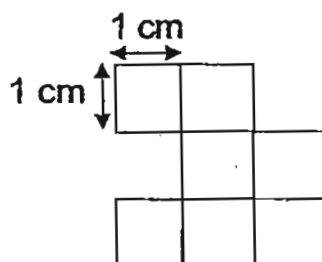
3, 5, 1, 4

Ans:

25. Bernice is thinking of a 2-digit even number that is greater than 30 but smaller than 40. The product of the digits of the number is equal to 18. What is the 2-digit even number?

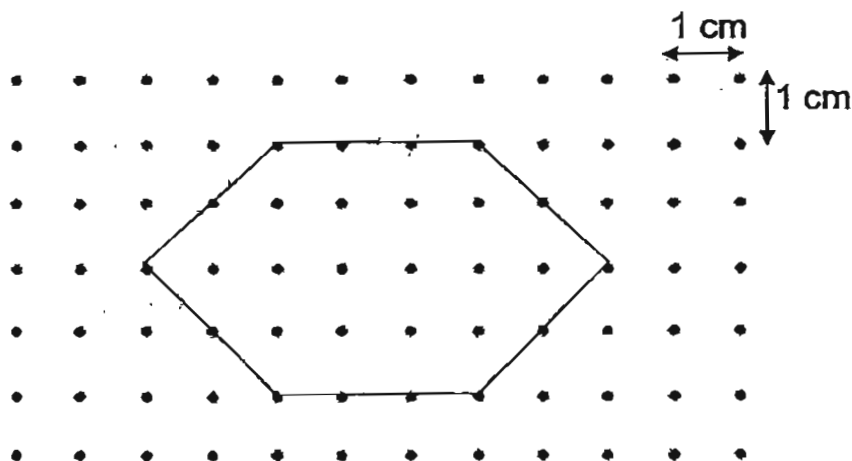
Ans:

26. The figure is made up of identical 1 cm squares. Find the area of the figure.



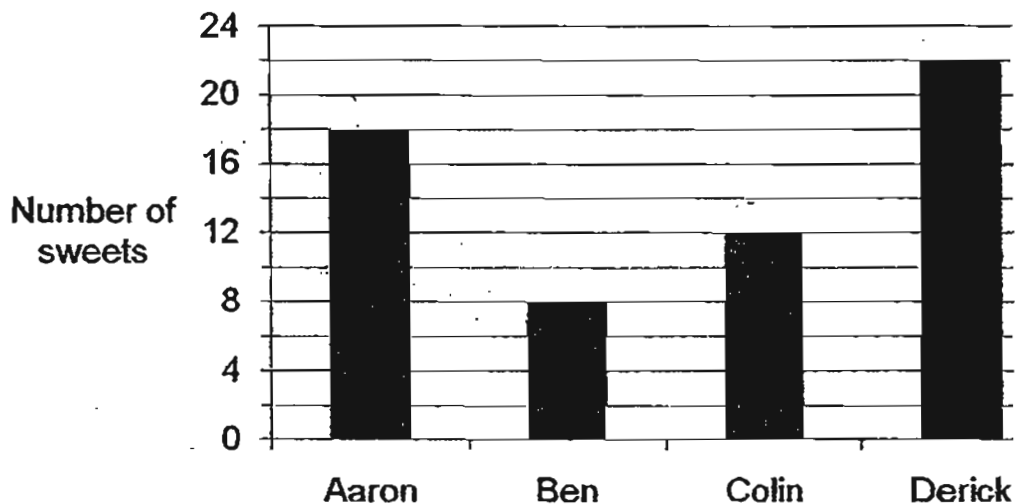
Ans:   $\text{cm}^2$

27. How many pairs of parallel lines are there in the figure below?



Ans:

This bar graph shows the number of sweets that 4 boys have.  
Use the bar graph to answer Question 28 and 29.



28. Find the difference between the boy with the most number of sweets and the boy with the least number of sweets.

Ans:

29. If the 4 boys share the sweets equally, how many sweets would each of them have?

Ans:

30. Eūgenia had four \$5 notes. She bought a T-shirt that costs \$16.85. How much money had she left?

Ans:

31. What is the missing digit?

$$\begin{array}{r}
 5 \quad \boxed{?} \quad 9 \\
 \times \quad \quad \quad 5 \\
 \hline
 2 \quad 6 \quad 9 \quad 5 \\
 \hline
 \end{array}$$

Ans:

32. What are the values of A and of B?



Ans: A:

B:

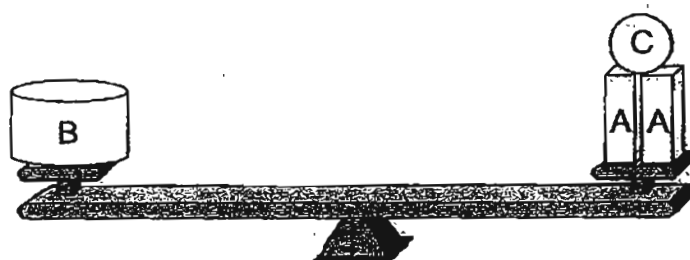
33. Bernard had thrice as much money as Charlie. Charlie had \$462 less than Bernard. How much did they have altogether?

Ans:

34. Janice started doing her homework at 3.30 p.m. She spent 45 minutes on her homework. What time did she complete her homework?

Ans:  p.m.

35. What is the mass of (C) if the mass of (B) is 10 kg?



Ans:  kg

36. Karen, Peggy and Joyce shared a roll of ribbon. Peggy received twice as much as Joyce and Karen received thrice as much as Joyce. If the roll of ribbon was 5 m 4 cm long, what was the length of ribbon that Joyce received?

Ans:

cm

37. The table below shows the scores awarded to 4 participants during a story telling competition. The participant with the highest total score won the competition.

Participant	Judge 1	Judge 2	Judge 3	Judge 4	Position
A	9	8	8	7	2 <sup>nd</sup>
B	8	6	7	6	4 <sup>th</sup>
C	10	9	10	8	1 <sup>st</sup>
D	8	6	8	?	3 <sup>rd</sup>

Participant D was 3<sup>rd</sup> in position after the competition. What was the smallest possible score Judge 4 could have awarded to Participant D?

Ans:

38. Mike has twice as many game cards as Paul. After Paul bought 60 game cards, Paul has twice as many game cards as Mike. How many game cards does Paul have at first?

Ans:

39. Amanda wanted to buy a watch. She saved \$4 on the first day. Everyday she would save \$4 more than the previous day. After 6 days, Amanda saved the exact amount of money to buy the watch. How much did the watch cost?

Ans:

40. Teresa and Jaya sold 145 rice dumplings. Jaya and Nancy sold 275 rice dumplings. How many more rice dumplings did Nancy sell than Teresa?

Ans:

☺ Please turn over to the next page ☺

**SECTION C: Story Sums (5 x 4 marks)**

**Solve the following story sums. All workings must be shown clearly.  
Draw models if necessary.**

41. Bernice, Caroline and Diana shared 1500 stickers. Caroline and Diana had a total of 1045 stickers while Bernice and Caroline had the same number of stickers.
- (a) How many stickers did Bernice have?
  - (b) How many more stickers did Diana have than Caroline?

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

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



42. Carol bought some marbles. She gave  $\frac{3}{5}$  of them to her friends and  $\frac{1}{10}$  of them to her cousins. If she was left with 60 marbles, how many marbles did she buy?

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

43. Josephine has \$405. She has twice as many \$2 notes as \$5 notes. What is the total value of \$2 notes that she has?

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

44. Anna placed some cones along a straight line with an equal distance between each of them. The distance between the 5<sup>th</sup> and the 13<sup>th</sup> cone was 1 m 20 cm. The distance between the 9<sup>th</sup> and the last cone is 1 m 50 cm. How many cones did Anna place along the straight line?

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

# Answer Ke

## EXAM PAPER 2011

SCHOOL : CATHOLIC HIGH

SUBJECT : PRIMARY 3 MATHEMATICS

TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17
2	3	3	2	2	3	4	4	3	2	3	2	4	2	1	4	1

Q18	Q19	Q20
1	1	2

21)1980      22)5      23)2/7, 2/3, 5/6, 11/12      24)4315

25)36      26)7cm<sup>2</sup>      27)3      28)14      29)15

30)\$3.15      31)3      32)A: 417      B: 130      33)\$924

34)4.15p.m.      35)2kg      36)84cm      37)6      38)20

39)\$84      40)130

41)1500 – 1045 = 455

1045 – 455 = 590

590 – 455 = 135

a)455

b)135

42)60 ÷ 3 = 20

20 x 10 = 200

43) \$2	\$5	value
100	50	450
80	40	360
90	45	405

\$90 x 2 = \$180

44)13 – 5 = 8

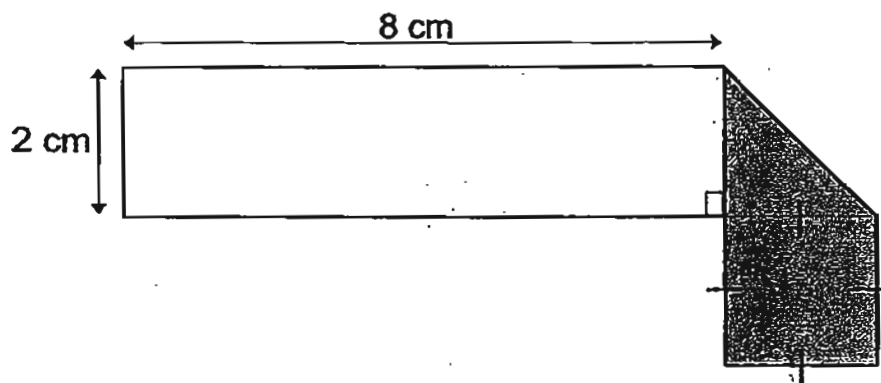
120 ÷ 8 = 15

150 ÷ 15 = 10

10 + 9 = 19 cones

45)a)24cm<sup>2</sup>      b)28cm

45. Xiao hui had a piece of rectangle strip of paper. She folded accordingly as what was shown below.
- (a) What is the area of the piece of paper before the fold?
- (b) What is the perimeter of the piece of paper before the fold?



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

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

**END OF PAPER**

☺ Please check your working and answers. ☺