



Anglo-Chinese School (Primary)

END-OF-YEAR EXAMINATION 2011  
MATHEMATICS  
BOOKLET A  
PRIMARY THREE

Name: \_\_\_\_\_ (     )     Class: Primary 3 \_\_\_\_\_

Date: 2 November 2011

Duration of Booklet A & B: 1h 45min

**INSTRUCTIONS TO CANDIDATES**

1. This question paper consists of 5 printed pages.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Shade your answer on the Optical Answer Sheet (OAS) provided.

**Section A (10 x 2 marks each)**

For each of the following questions, four options are given. Choose the correct option and shade its oval (1, 2, 3 or 4) in the Optical Answer Sheet provided.

1. Express 9 thousands and 57 ones in numerals.

- (1) 9 507
- (2) 9 057
- (3) 9 570
- (4) 9 750

2. Thomas bought 216 candies. He shared the candies equally with 3 of his friends. How many candies would each of them have?

- (1) 54
- (2) 72
- (3) 648
- (4) 864

3. Nicole's tuition class started at 11 o'clock in the morning. It lasted for 90 minutes. What time did her tuition class end?

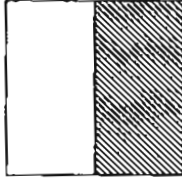
- (1) 11.90 a.m.
- (2) 12.30 a.m.
- (3) 12.30 p.m.
- (4) 1.30 p.m.

4. Oranges are sold at 5 for \$2. How many oranges can I buy with \$30?

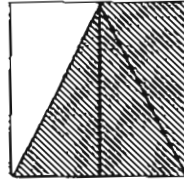
- (1) 12
- (2) 15
- (3) 75
- (4) 150

5. Sumei shaded  $\frac{2}{8}$  of a square. Which diagram below shows the square that Sumei has shaded?

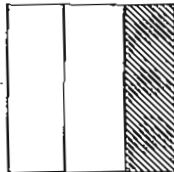
(1)



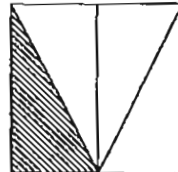
(2)



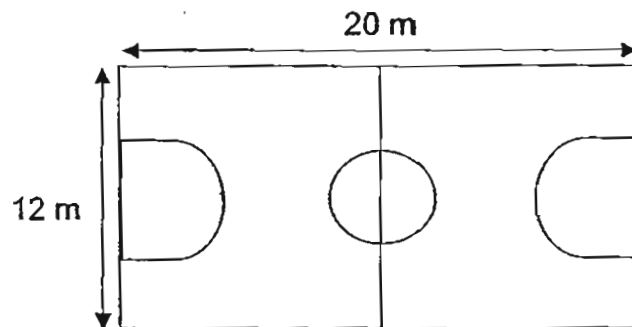
~~(1)~~ (3)



(4)



6. The length of a basketball court is 20 m. Its breadth is 12 m. John walked round the basketball court once. What was the total distance he walked?



- (1) 20 m
- (2) 32 m
- (3) 64 m
- (4) 240 m

7. What is the missing number below?

$$4 + 8 + 4 + 8 + 4 + 8 = 4 \times \boxed{?}$$

- (1) 8
  - (2) 9
  - (3) 12
  - (4) 36
8. Mr. Jamal arranged 110 chairs into 5 equal rows.  
How many chairs were there in each row?

- (1) 20
- (2) 22
- (3) 55
- (4) 220

9. The diagram below shows a balance. 3 apples are placed at one end of the balance while 1 apple and a block of wood with a mass of 378 g are placed on the other end of the balance. Find the mass of 1 apple.



- (1) 126 g
- (2) 189 g
- (3) 504 g
- (4) 756 g

10. The missing number in the number pattern is \_\_\_\_\_.

10, 20, 40, 70, ?, 160, 220

- (1) 100
- (2) 110
- (3) 120
- (4) 140





Anglo-Chinese School (Primary)

END-OF-YEAR EXAMINATION 2011  
MATHEMATICS  
BOOKLET B  
PRIMARY THREE

Name: \_\_\_\_\_ (       )       Class: Primary 3 \_\_\_\_\_

Date: 2 November 2011

Duration of Booklet A & B: 1h 45min

\_\_\_\_\_  
Parent's/Guardian's signature

**INSTRUCTIONS TO CANDIDATES**

1. This question paper consists of 15 printed pages.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.

| Section                      | Number of Questions | Marks |
|------------------------------|---------------------|-------|
| A. Multiple-Choice Questions | 20                  |       |
| B. Short Answers             | 40                  |       |
| C. Problem Sums              | 40                  |       |
| Total Marks                  | 100                 |       |

**SECTION B - Short Answers (40 Marks).**

Questions 11 to 30 carry 2 marks each. Show all workings clearly.

Write your answer in the space provided. Give your answers in the units stated and in its simplest form whenever possible.

11. What is 157 less than the sum of 792 and 859?

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

12. Fill in each box with the correct digit.

$$\begin{array}{r}
 7 \quad \boxed{\phantom{00}} \quad '3 \\
 - \quad 1 \quad 6 \quad 7 \\
 \hline
 6 \quad 1 \quad \boxed{\phantom{00}} \\
 \hline
 \end{array}$$

13. How many times does the digit '3' appear in the number 1 to 34?

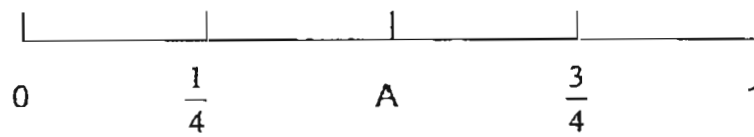
Answer: \_\_\_\_\_



14. William had \$12 more than Billy. After their mother gave each of them \$8, both of them had \$40 altogether. How much money did William have at first?

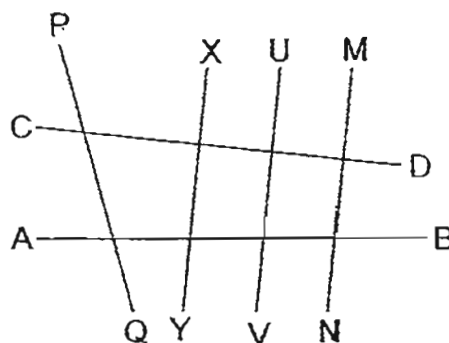
Answer: \$ \_\_\_\_\_

15. The figure below shows a number line. What is the value of A?



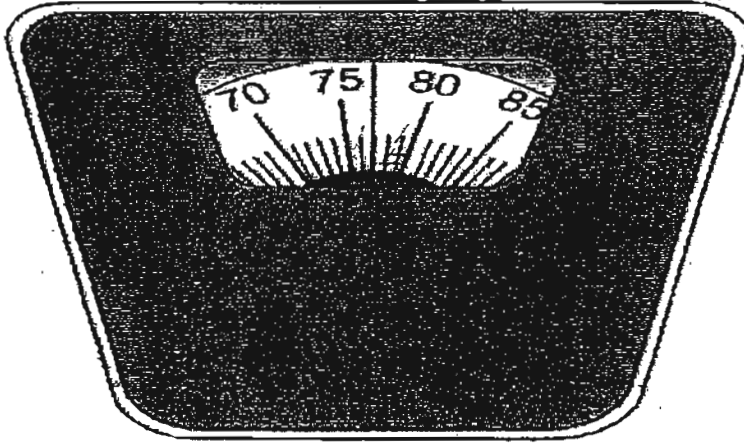
Answer: A = \_\_\_\_\_

16. Which one of the lines in the figure below is perpendicular to line XY?



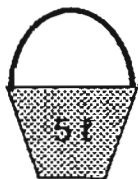
Answer: \_\_\_\_\_

17. Alvin's weighing scale is faulty. The mass it shows is always 8 kg heavier. If the reading below shows Alvin's mass, what is Alvin's actual mass?

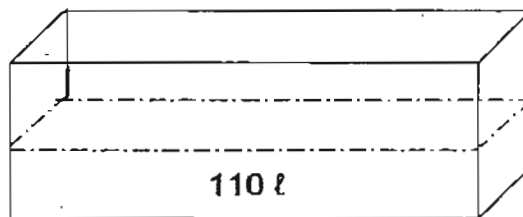


Answer: \_\_\_\_\_ kg

18. The figure below shows a fish tank with a capacity of 240 ℓ. It is filled with 110 ℓ of water. How many pails of capacity 5 ℓ are needed to fill the fish tank to its brim?



Pail



Fish Tank

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

19.  $\frac{1}{4} + \frac{5}{12} = \boxed{?}$  What is the missing fraction in the box?

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

20. Based on the numbers below, what is the difference between the largest odd number and the smallest even number?

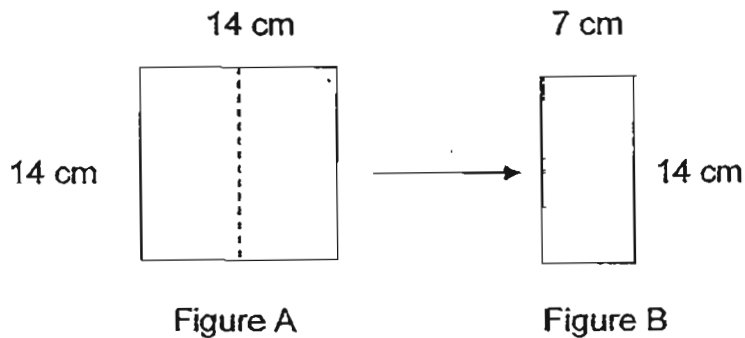
7 924 , 3 897 , 7 938 , 7 893 , 3 982

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

21. Alan has some sweets. He gave  $\frac{1}{8}$  of the sweets to John and  $\frac{1}{4}$  of them to Jason. What fraction of the sweets had he left?

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

22. Figure A is a square piece of paper (not drawn to scale) with a perimeter of 56 cm. It is then folded into half. What is the area of the new figure B?



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

23. Mrs. Lee baked 9 cakes with 18 packets of flour.  
How many such cakes can she bake with 12 packets of flour?

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

24. Carol baked 6 948 biscuits.  
She packed equal number of biscuits into each packet.  
The packets of biscuits were kept equally into 6 tins.  
In each tin, there were 3 packets of biscuits.  
How many biscuits were there in each packet?

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

25. Siti is three times as old as Ben. Maggie is 14 years younger than Siti. If Ben is 19 years old, how old is Maggie?

Answer: \_\_\_\_\_ years old

26. Susie wanted to buy a pen that cost \$1.60 and a correction tape that cost \$2.50. On checking her wallet, she found that she was short of \$0.60. How much money was in her wallet?

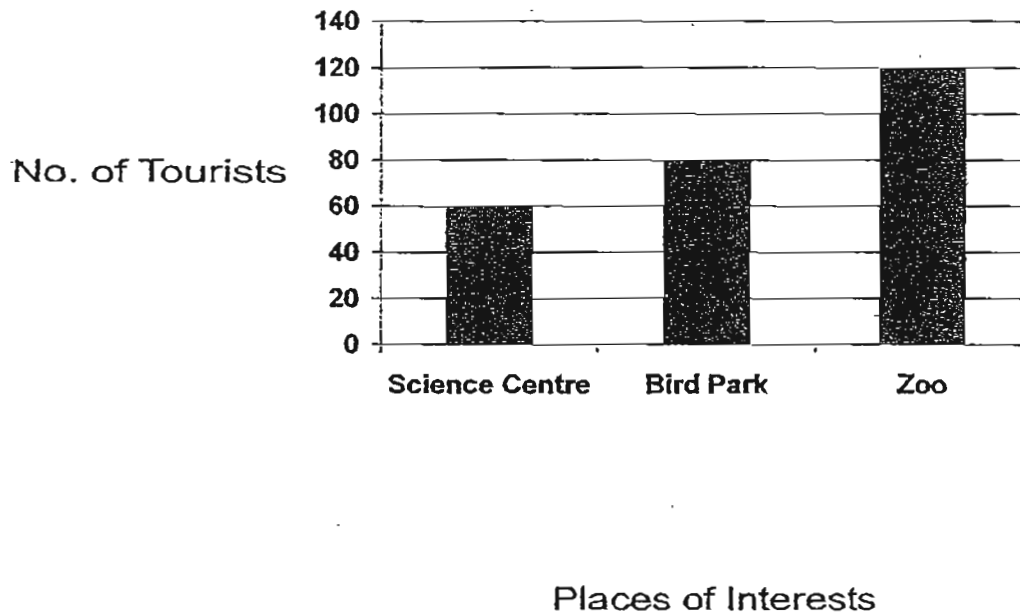
Answer: \$ \_\_\_\_\_

27. Isabelle started her Science project at 1.45 p.m. She needed 3 h 25 min to complete it. What time would she complete her Science project?

Answer: \_\_\_\_\_ p.m.

Use the information below to answer questions 28 and 29.

The following graph shows the number of tourists visiting 3 places of interests on Sunday.



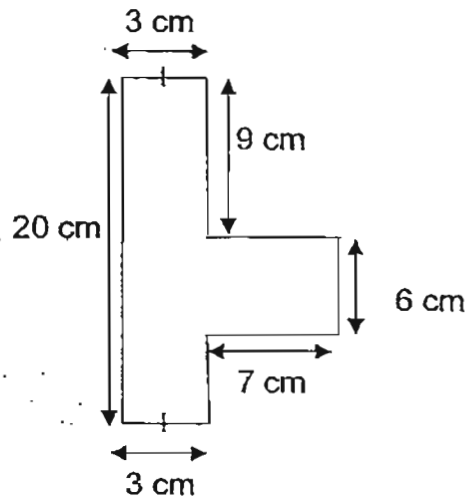
28. What is the total number of tourists who had visited the Science Centre, Bird Park and the Zoo on Sunday?

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

29. The ticket to Bird Park costs \$7 each. It costs \$2 more than the ticket to the Zoo. How much money was collected from the sale of tickets to the Zoo on Sunday?

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

30. Find the perimeter of the figure below.



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

**SECTION C - Problem Sums (40 Marks)**

Questions 31 to 40 carry 4 marks each. Show your working and mathematical statements clearly in the space below each question. Write your answer in the answer space provided. Express your answers in the units stated and in its simplest form whenever possible.

31. 3 056 pupils took part in a walkathon. 2 178 of them were boys.  
How many more boys than girls took part in the walkathon?

Answer: \_\_\_\_\_ [4m]

32. Kathy has 105 fewer beads than Jane. Sally has 65 more beads than Jane. If Jane has 305 beads, how many beads do they have altogether?

Answer: \_\_\_\_\_ [4m]



33. Last year, Amy and Ben were of the same height. This year, Ben grew taller by 8 cm and Amy grew taller by 5 cm. If their total height is 253 cm, what was Amy's height last year?

Answer: \_\_\_\_\_ [4m]

34. Nancy is given some money to buy wallets for her friends. If she buys 3 wallets, she will have \$6 left. If she wants to buy 5 wallets, she will be short of \$8. How much money does Nancy have?

Answer: \_\_\_\_\_ [4m]

35. Jeffrey jogged two rounds around a square field.  
If the total distance covered was 1 km 800 m, find the distance of one side of the square field. (Give your answer in metres)

Answer: \_\_\_\_\_ [4m]

36. Grace baked some cakes and sold all of them at a funfair.  
She sold twice as many chocolate cakes as butter cakes.  
She sold three times as many butter cakes as cheese cakes.  
How many chocolate cakes did Grace make if a total of 990 cakes were sold at the funfair?

Answer: \_\_\_\_\_ [4m]

37. Vanessa bought 4 similar rings and a necklace for \$1 248. The necklace cost \$448 more than a ring.

- a) Find the cost of each ring.  
b) Find the cost of the necklace.

Answer: (a) \_\_\_\_\_ [2m]

(b) \_\_\_\_\_ [2m]

38. Susan took 2 h 35 min to complete her homework.  
Wilson took 55 min lesser time than Susan while Betty took 15 min longer than Wilson to complete her homework.

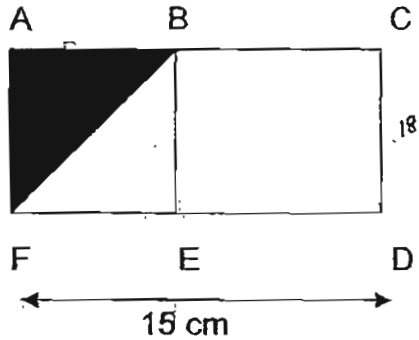
- a) How long did Wilson take to complete his homework?  
b) How long did Betty and Susan take to complete their homework altogether?

Answer: (a) \_\_\_\_\_ [2m]

(b) \_\_\_\_\_ [2m]

39. The figure is made up of a square ABEF and a rectangle BCDE. If the area of the shaded part is  $18 \text{ cm}^2$ , find

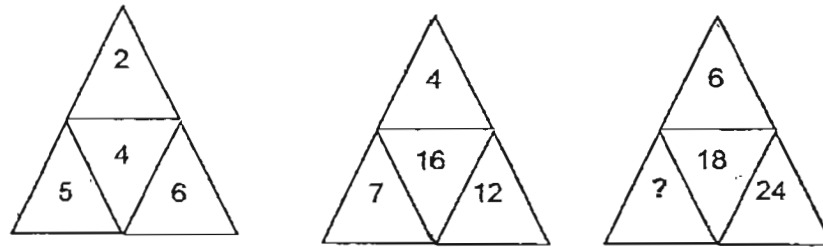
- the perimeter of the rectangle BCDE
- the area of the unshaded part of the figure



Answer:(a)\_\_\_\_\_ [2m]

(b)\_\_\_\_\_ [2m]

40 (a) Find the value of the missing number.



(b) Observe the following pattern and find the missing number.

|         |         |                                  |          |
|---------|---------|----------------------------------|----------|
| 121     | 120     | 110                              | ?        |
| 11   11 | 10   20 | 9 <del>20</del><br><del>28</del> | 194   67 |

Answer: (a) \_\_\_\_\_ [2m]

(b) \_\_\_\_\_ [2m]

End-of-Paper





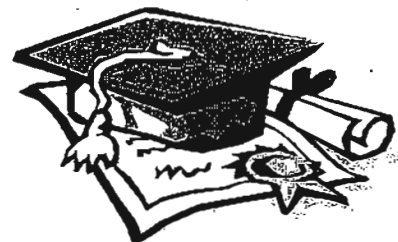
# ANSWER SHEET

**EXAM PAPER 2011**

**SCHOOL : ACS**

**SUBJECT : PRIMARY 3 MATHEMATICS**

**TERM : SA2**



| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 |
|----|----|----|----|----|----|----|----|----|-----|
| 2  | 1  | 3  | 3  | 4  | 3  | 2  | 2  | 2  | 2   |

- 11)1494      12)8, 6      13)9      14)\$18      15)  $\frac{1}{2}$
- 16) $XY \perp CD$       17)69kg      18)26 pails      19) $\frac{2}{3}$       20)3911
- 21) $\frac{5}{8}$       22)98cm<sup>2</sup>      23)6 cakes      24)386 biscuits      25)43
- 26)\$3.50      27)5.10p.m.      28)260 tourists      29)\$600      30)60cm
- 31)3056 – 2178 = 878  
2178 – 878 = 1300 more boys.
- 32)305 + 65 = 370  
305 – 105 = 200  
370 + 200 = 570  
570 + 305 = 875
- 33)253 – 5 = 248  
248 – 8 = 240  
240 ÷ 2 = 120
- 34)\$27
- 35)1800 ÷ 2 = 900  
900 ÷ 4 = 225m
- 36)990 ÷ 10 = 99  
99 × 6 = 594
- 37)a)5u + 448 = 1248  
5u → 1248 – 448 = 800  
1u → 800 ÷ 5 = \$160  
b)160 + 448 = \$608
- 38)a)2h 35min – 55 min = 1h 40min  
b)2h 35min + 1h 55min = 4h 30min
- 39)a)18 + 18 = 36  
6 × 6 = 36  
15 – 6 = 9  
9 + 9 + 6 + 6 = 30cm<sup>2</sup>  
b)9 × 6 = 54  
54 + 18 = 72cm<sup>2</sup>
- 40)a)18 + 24 = 42  
42 ÷ 6 = 7  
b)194 × 10 = 1940  
1940 – 67 = 2007