

CHRIST CHURCH FOUNDATION SCHOOL

END OF YEAR PROMOTION EXAMINATION

DATE, JUNE, 2013

FIRST FORMS

MATHEMATICS

DURATION 1 ½ HRS

NAME:

FORM:

INSTRUCTIONS:

- 1. Answer all of the questions**
- 2. Section I: (i) Use the space to the right of the questions for working.
(ii) Using a pencil, shade the letter which corresponds to the right answer.**
- 3. Section II: (i) Show all necessary working in the space provided
(ii) Answers must be placed in the space provided**

SECTION I (20 marks)

1. $(-5)^2 =$

SPACE FOR WORKING

(A) - 25

(B) 2×-5

(C) 25

(D) 52

2. Three of the angles of a quadrilateral are 72° , 101° , and 96° . What is the value of the fourth angle?

(A) 4°

(B) 72°

(C) 91°

(D) 180°

3. $5a + 7a - 12a + 2a =$

(A) $-2a$

(B) 2

(C) $2a$

(D) $26a$

4. A man buys a calculator for \$20 and sells it for \$30.

His percentage profit was

- (A) \$10 (B) 10 %
(C) 50% (D) \$100

5. If $R = \{2, 5, 7, 8, 9\}$ and $Q = \{5, 8, 10, 12\}$ then $R \cap Q =$

- (A) $\{ \}$ (B) 2
(C) $\{5, 8\}$ (D) $\{2,5,7,8,9,10,12\}$

6. The least number of mangoes that can be shared equally among 12 or 15 boys is

- (A) 3 (B) 37
(C) 60 (D) 180

7. \$120 is divided between Tim and Jim in the ratio 3: 9. Jim gets

- (A) \$ 12 (B) \$ 30
(C) \$ 36 (D) \$ 90

8. A rectangular floor is 7m long and 5m wide. Its perimeter is

- (A) 12m (B) 24m
(C) 35m (D) 75m

9. The marked price of a phone is \$ 600. If a discount of 5% is given the phone is sold for

- (A) \$ 570 (B) \$ 620
(C) \$ 630 (D) \$ 3000

10. $20 - 9 \times 2 + 4 \div 2 =$

- (A) 4 (B) 17
(C) $17 \frac{1}{2}$ (D) 24

3. Simplify each of the following:

(i) $7a - 3b + 8b + 2a$

Ans: (marks)

(ii) $(-4a) \times (-2a^2)$

Ans: (marks)

b) Solve the equation

$3x - 12 = 24$

Ans: (marks)

c) If $a=2$, $b=-3$ and $c=\frac{1}{4}$ find, in their simplest form, the values of

(i) $\frac{a}{b}$

(ii) b^2

(iii) c^3

(iv) $\frac{1}{c}$

Ans:(marks) Ans:(marks) Ans:(marks) Ans:(marks)

4. A man leaves Oistins at 9:45 AM and drives for 32 minutes to Martin's Bay. At what time does he get to Martin's Bay?

Ans:(marks)

b) I think of a number, multiply it by 4, then add 9 and the total is 25.

(i) Let 'x' be the number I thought of. Write an equation in 'x'.

Ans:(marks)

(ii) What was the number I thought of?

Ans:(marks)

c) A woman makes \$12.50 per hour. How much money does she make in a week if she worked for 40 hours?

Ans:(marks)

5. On the graph draw the line;

$$y = 3x + 1$$

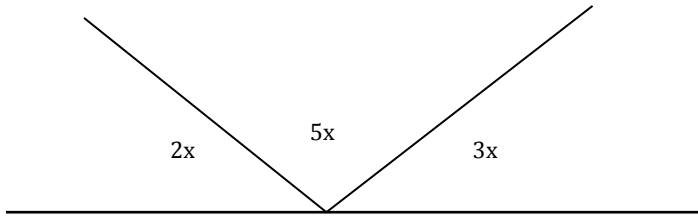
X	-2	0	1
Y	-5		

b) On the same graph draw the line represented by the equation $y=4$.

c) Write down the coordinates of the point where the two lines meet.

Ans:(marks)

6. Find the angles marked $2x$, $3x$ and $5x$. (*not drawn to scale*)



Ans:(marks)

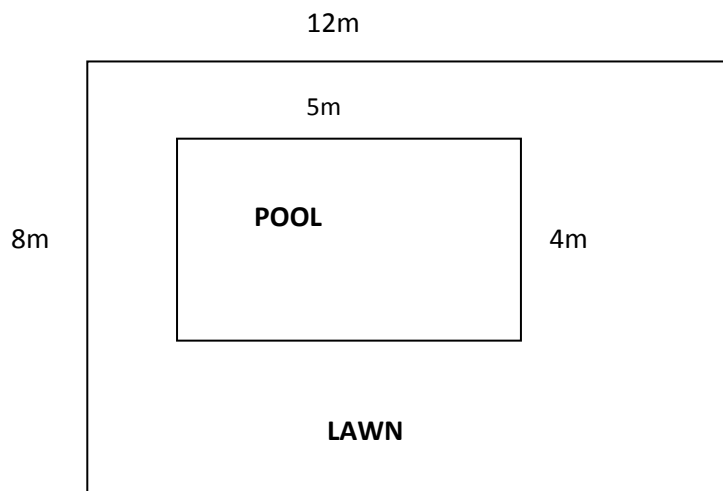
b) Use the diagram below to find

(i) the area of the grass

Ans: m^2 (marks)

(ii) the volume of the pool if it is 2m deep.

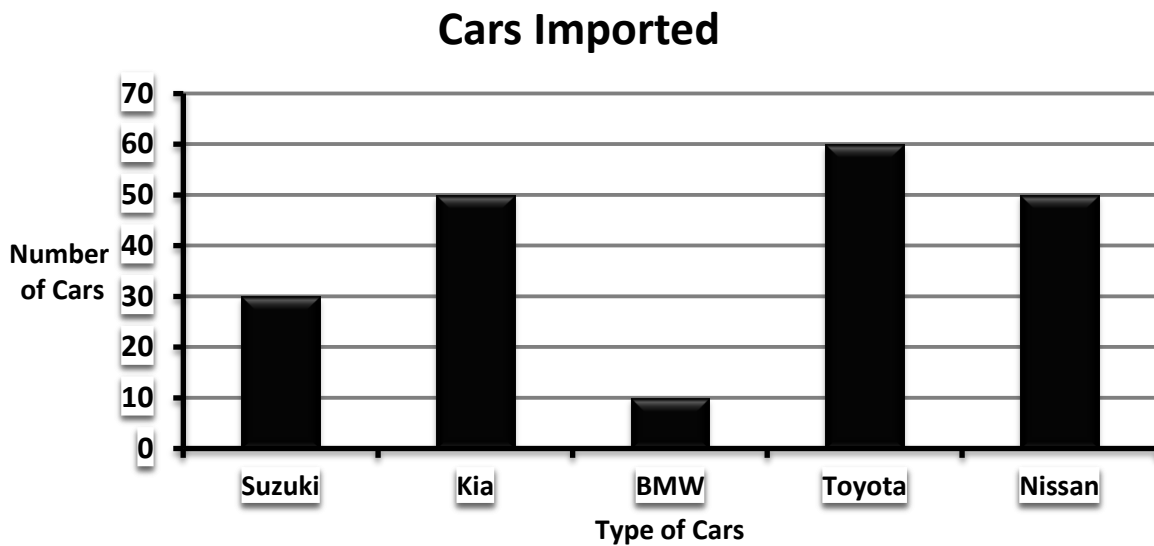
Ans: m^3 (marks)



7. Find the mean (average) of the following numbers: 7, 2, 4, 3, 6, 8, and 5.

Ans:(marks)

b) The bar chart shows the cars imported into Barbados in 2010.



(i) How many cars were imported into Barbados in 2010?

Ans:(marks)

(ii) What percentage of the cars was Kia?

Ans:(marks)

(iii) If an import duty of \$10 000 was charged on each car, what was the total amount of import duty collected in 2010?

Ans:(marks)

END OF TEST
TOTAL = MARKS