

SAT I

2012 / 2013

Question booklet # 1

Grade	11
Cluster	Core
Subject	Mathematics

Student Name		
Student Number	Section	

Coverage	 SAT I, basic reasoning questions.

Practice sheet 1

- Two of three angles of a triangle measure 35° and 65°, respectively. What is the measure, in degrees, of the third angle of the triangle?
 - a. 65°
 - b. 35°
 - c. 80°
 - d. 100°
 - e. 110°
- 2. The sum of 16 and a number x is 5 more than double of 6, What is the value of x?
 - a. 1
 - b. -1
 - c. 3
 - d. -2 e. 0
- 3. If *a* and *b* are even integers. Which of the following must be **Odd** integer?
 - I. a^2b
 - II. $a+b^2$
 - III. 2ab
 - a. None
 - b. I only
 - c. II only
 - d. III only
 - e. I and II

а	f(a)	<i>g</i> (<i>a</i>)
1	3	-2
2	6	1
3	5	4
4	-1	5
-1	0	7

- 4. Let the functions f, and g be defined by the table above. If f(1) = b, what is the value of g(b)?
 - a. -2
 - b. 1
 - c. 4
 - d. 5
 - e. 7

5. If x + 4y + 2z = x + 4y - 10, what is the

value of z ?

- a. -10
 b. -5
 c. 5
 d. 10
 e. 20
- Mr. Hamad has \$3,000 in savings account (no interest) and plans to add \$100 per week to the account. Which of the following expressions represents the amount he will have, in dollars, after *x* weeks?
 - a. 100 *x*
 - b. 100 + 3,000x
 - c. 3,000 + 100x
 - d. (3,000 + 100)x
 - e. 3,000 *x*



- 7. The graph above shows the scores of four students in math quiz. What is the difference between the greatest and the least scores?
 - a. 10
 - b. 20
 - c. 30
 - d. 40
 - e. 50

Practice sheet 1

- If *x* is a positive even integer, which of the following is **NOT** an even integer?
 - a. x 2b. x + 2c. x + 1d. x - 4
 - e. *x* + 4
 - 2x + 3y = 63x 3y = 9
- 9. In the solution to the system of equations above, what is the value of *x*?
 - a. 3
 - b. 4
 - c. 5
 - d. 6
 - e. 7
- 10.What is the greatest number of sugar bags, each $\frac{2}{5}$ of Kilograms, that can be taking from 16 Kilogram bag?
 - a. 30
 - b. 35
 - c. 40
 - d. 45
 - e. 50
- 11. A circle has an area of π square meters, what is the circumference of the circle?
 - a. π meters
 - b. 2π meters
 - c. $\sqrt{\pi}$ meters
 - d. π^2 meters

e.
$$\frac{1}{\pi}$$
 meters

12.For all numbers s and t, let the operation \Box be define by $s \Box t = 2t$ and let operation \bullet be defined by $s \bullet t = 2s$. Which of the following must be true?

> a. $s \bullet t = t \bullet s$ b. $s \Box t = t \Box s$ c. $s \bullet t = s \Box t$ d. $s \bullet t = t \Box s$ e. $t \Box (s \bullet t) = s \bullet (t \Box s)$

13. If
$$n = -4b$$
, what is $5n + 2$ in term of *b* ?
a. $-18b$
b. $-22b$
c. $-20b + 2$
d. $-18b + 2$
e. $-22b + 2$

14. Which of the following is equal to 0.555?

a. $\frac{5}{10} + \frac{5}{100} + \frac{5}{1000}$ b. 0.5 + 0.50 + 0.500c. $\frac{555}{100}$ d. $\frac{50}{10} + \frac{500}{100} + \frac{5000}{1000}$ e. 0.5 + 0.55 + 0.555

15. If 3t + 9 = 13, what is the value of 9t?

- a. 3b. 6c. 9
- d. 12
- e. 15