

## IB Practice Exam: 10 Paper 2 Zone 2 – 90 min, Calculator Allowed

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

1. The following table gives the examination grades for 120 students.

Grade	Number of students	Cumulative frequency
1	9	9
2	25	34
3	35	$p$
4	$q$	109
5	11	120

- (a) Find the value of

- (i)
- $p$
- ;
- 
- (ii)
- $q$
- .

(4)

- (b) Find the mean grade.

(2)

- (c) Write down the standard deviation.

(1)

(Total 7 marks)

2. An arithmetic sequence,
- $u_1, u_2, u_3, \dots$
- , has
- $d = 11$
- and
- $u_{27} = 263$
- .

- (a) Find
- $u_1$
- .

(2)

- (b) (i) Given that
- $u_n = 516$
- , find the value of
- $n$
- .

- (ii) For this value of
- $n$
- , find
- $S_n$
- .

(4)

(Total 6 marks)

3. Jan plays a game where she tosses two fair six-sided dice. She wins a prize if the sum of her scores is 5.

- (a) Jan tosses the two dice once. Find the probability that she wins a prize.

(3)

- (b) Jan tosses the two dice 8 times. Find the probability that she wins 3 prizes.

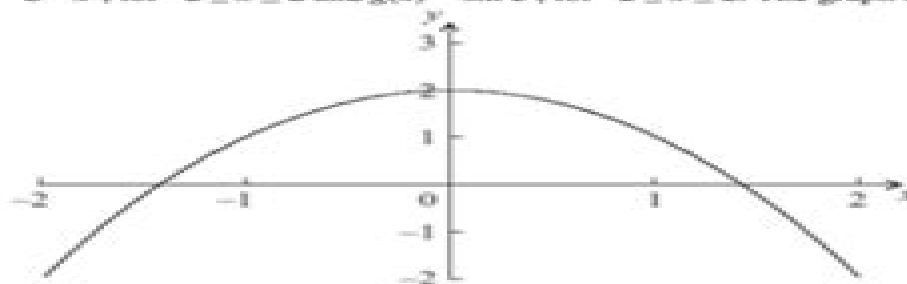
(2)

(Total 5 marks)

4. Find the term in
- $x^4$
- in the expansion of
- $\left(3x^2 - \frac{2}{x}\right)^5$
- .

(Total 6 marks)

5. Consider
- $f(x) = 2 - x^2$
- , for
- $-2 \leq x \leq 2$
- and
- $g(x) = \sin e^x$
- , for
- $-2 \leq x \leq 2$
- . The graph of
- $f$
- is given below.



# May 2013 SI Math Paper 2 Tz

**Michael Brown**



**May 2013 SI Math Paper 2 Tz:**

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