

HIGHLAND SECONDARY SCHOOL
2013 - TERM 1
GRADE 12 MATHS
TEST 2

Instructions: Answer all the 5 questions. Show all the working.

1. An unbiased coin is tossed and a fair die is thrown. What is the probability of the results being a Head and a 2?
 Answer: $\frac{1}{12}$ [2 marks]

2. A shopping basket contains 3 buns, 8 potatoes, 4 apples and 5 sweets. The basket dropped. What is the probability that

(a) A potato fell out?

Answer: $\frac{2}{5}$

[1 mark]

(b) An apple or potato fell out?

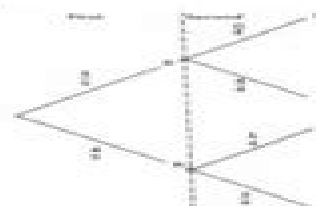
Answer: $\frac{3}{5}$

[2 marks]

3. A bag contains 1 blue bead and 4 red beads. A girl takes two beads at random from the bag, one after the other.

(a) Draw the probability tree diagram.

Answer:



[2 marks]

- (b) Find the probability that she has taken
 (i) Two red beads.
 (ii) One bead of each colour.

Answer: $\frac{3}{5}$

[2 marks]

Answer: $\frac{2}{5}$

[2 marks]

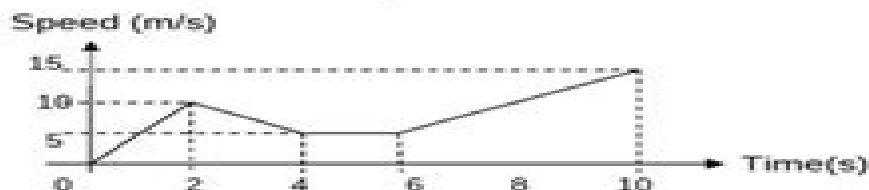
4. Write down the equation of the line shown in the figure below.



Answer: $m = -\frac{1}{2}$ [2 marks]

Answer: $y = -\frac{1}{2}x + 1$ [3 marks]

5. The graph shows the speed of an object over a time of 10 seconds.



Find

- (i) the acceleration during the first 2sec
 (ii) The deceleration in the second part
 (iii) The total distance travelled
 (iv) The average speed for the whole journey

Answer: 5m/s^2

[2 marks]

Answer: -2.5m/s^2

[2 marks]

Answer: 75 m

[4 marks]

Answer: 7.5m/s

[2 marks]

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Gene E. Hall



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