

**SECTION A****QUESTION 1**(a) Solve for  $x$ :

$$(1) \quad (x+2)^2 = 3x(x-2) \quad (5)$$

giving your answers correct to one decimal digit.

$$(2) \quad x^2 - 9x \geq 36. \quad (4)$$

$$(3) \quad 3^x - 3^{x-2} = 72. \quad (4)$$

(b) Given:  $(2m-3)(n+5) = 0$ .

Solve for:

$$(1) \quad n \text{ if } m = 1. \quad (1)$$

$$(2) \quad m \text{ if } n \neq -5. \quad (1)$$

$$(3) \quad m \text{ if } n = -5. \quad (2)$$

**[17]****QUESTION 2**

$$(a) \quad \text{Evaluate:} \quad \sum_{k=2}^6 \frac{2^{k-1}}{k}. \quad (3)$$

(b) The number of members of a new social networking site doubles every day. On day 1 there were 27 members and on day 2 there were 54 members.

$$(1) \quad \text{Calculate the number of members there were on day 12.} \quad (2)$$

$$(2) \quad \text{The site earns half a cent per member per day. Calculate the amount of money that the site earned in the first 12 days.} \quad (4)$$

Give your answer to the nearest Rand.

(c) Gina plans to start a fitness programme by going for a run each Sunday. On the first Sunday she runs 1 km and plans to increase the distance by 750 m each Sunday. When Gina reaches 10 km, she will continue to run 10 km each Sunday thereafter.



$$(1) \quad \text{Calculate the distance that Gina will run on the 9<sup>th</sup> Sunday.} \quad (3)$$

$$(2) \quad \text{Determine on which Sunday Gina will first run 10 km.} \quad (2)$$

$$(3) \quad \text{Calculate the total distance that Gina will run over the first 24 Sundays.} \quad (4)$$

**[18]**

# 2013 Maths Exam Papers

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