

GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1

QUESTION 1

- 1.1 Solve for x :
- 1.1.1 $x^2 - 5x - 6 = 0$ (2)
- 1.1.2 $(2x - 3)(x + 1) = 9$ (3)
- 1.1.3 $x - \sqrt{x - 1} = 3$ (4)
- 1.1.4 $x(x + 18) > -25$ (4)
- 1.1.5 $x^{\frac{1}{2}} = 4$ (3)
- 1.1.6 $2^{2x} - 2^{x+1} = 12$ (4)
- 1.2 Simultaneously solve x and y :
- $2x - y = 1$ and $3x^2 - 4xy + y^2 = 0$ (5)
- 1.3 Solve the following inequalities:
- 1.3.1 $x^2 + 5x - 6 > 0$ (3)
- 1.3.2 $-3(x + 1)(x - 2) < 0$ (3)
- [P1]**

QUESTION 2

- 2.1 $x = -3 \pm 2\sqrt{2}$ are the roots of a quadratic function, $f(x)$, of which the y -intercept is 4. Determine $f(x)$. (5)
- 2.2 Given: $g(x) = \frac{x^2 - 2x + 1}{x - 1}$
- 2.2.1 For which values of x will $g(x)$ be undefined? (2)
- 2.2.2 Explain why $g(x)$ will never equal zero. (Show all your calculations). (3)
- 2.3 Solve x if: $\frac{2-x}{x+1} < 0$. Graphically represent your answer. (5)

- 2.4 Simplify and leave an answer with positive exponents only:

$$\frac{x^2 y^3 z^4}{x^3 y^2 z^3}$$

(4)

- 2.5 Without solving the equation, determine the nature of the roots of: $4x^2 = 2x + 1$. (5)

[P4]

QUESTION 3

- 3.1 The first three terms of a linear series, is given as: $3x - 2$, $x + 1$, $2x + 5$
- 3.1.1 Determine the value of x . (3)
- 3.1.2 Determine the numerical value of T_5 . (2)
- 3.2 Given the quadratic series: $-120, -94, -68, -20, \dots$
- 3.2.1 Determine the next two terms of the series. (2)
- 3.2.1 Determine T_n , the general term of the pattern. (3)
- 3.2.3 Given that $T_n = -4n^2 + 56n - 180$, determine the largest possible numerical value for T_n . (4)
- 3.3 Given $T_n = 13 - 3n$:
- 3.3.1 Which term in the series would be equal to -17 ? (3)
- 3.3.2 Determine the numerical value for the 11th term. (2)
- 3.4 James and John look at the following patterns:

Pattern 1	Pattern 2	Pattern 3
		
		
		

James says if he increases the pattern number by one, square that number and then subtract the pattern number increased by one he will get the general formula.

John says he can derive the general formula for the number of blocks by taking the number of columns in each pattern and multiplying it by the number of rows.

Who is correct between James and John? Prove your answer.

(5)

[P4]

QUESTION 4

Given: $f(x) = \frac{x^2}{x+1} - 1$ and $g(x) = -x^2$. The point $(1, -3)$ lies on g .

- 4.1 Determine the value of x . (2)
- 4.2 Draw a neat sketch of the two graphs on the same axis. Show all intercepts with the axes and asymptote clearly. (5)
- 4.3 Determine the axis of symmetry of f that has a positive gradient. (2)

[P1]

Maths Paper Grade 1march 23

Jennifer B. Stith



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Your Mathematics Standards Companion, Grades 3-5 Linda M. Gojak, Ruth Harbin Miles, 2017-05-17 Transforming the standards into learning outcomes just got a lot easier In this resource you can see in an instant how teaching to your state standards should look and sound in the classroom Under the premise that math is math the authors provide a Cross Referencing Index for states implementing their own specific mathematics standards allowing you to see and understand which page number to turn to for standards based teaching ideas It s all here page by page The mathematics embedded in each standard for a deeper understanding of the content Examples of what effective teaching and learning look like in the classroom Connected standards within each domain so teachers can better appreciate how they relate Priorities within clusters so teachers know where to focus their time The three components of rigor conceptual understanding procedural skills and applications Vocabulary and suggested materials for each grade level band with explicit connections to the standards Common student misconceptions around key mathematical ideas with ways to address them Sample lesson plans and lesson planning templates Cross referenced index listing the standards in the following states explaining what is unique to the standards of each state *Your Mathematics Standards Companion* is your one stop guide for teaching planning assessing collaborating and designing powerful mathematics curriculum [Math, Grade 1](#) Jennifer B. Stith, 2016-03-07 *Weekly Practice Math* for grade 1 provides daily practice for key concepts such as addition subtraction place value shapes measurement graphing and more Complete with flash cards and activities this series supports classroom success by offering extra practice at home Improve students math skills in the classroom while also providing a way to continue the learning process at home *Weekly Practice Math* for grade 1 allows you to reinforce math topics at school and at home by offering 40 weeks of standards based activities and skill review The unique layout and engaging exercises keep students interested as they build concept knowledge and essential skills Reproducible at home activities and flash cards are also included to encourage the home to school connection that s essential for student success *Weekly Practice* is the perfect time saving resource for creating standards aligned homework packets and keeping students skills sharp all year long The *Weekly Practice* series for kindergarten to grade 5 provides 40 weeks of comprehensive skill review Each 192 page supplemental workbook focuses on critical skills and concepts that meet the standards for language arts or math Designed to help students achieve subject mastery each book includes four days of practice activities weekly off the page activities Common Core State Standards alignment matrix flash cards and an answer key *Weekly Practice* offers an effortless way to integrate language arts or math practice into daily classroom instruction [The Common Core Mathematics Companion: The Standards Decoded, Grades 3-5](#) Linda M. Gojak, Ruth Harbin Miles, 2015-05-28 Your user s guide to the mathematics standards In the 12 short months since the ELA versions of *The Common Core Companions* Grades K 2 and 3 5 burst on the scene they ve already assisted tens of thousands of teachers with the day to day what you do Teachers one big criticism what about

mathematics Luckily NCTM past president Linda Gojak and mathematics coach Ruth Harbin Miles stepped up to the task The result That version of the mathematics standards you wish you had Page by page The Common Core Mathematics Companions clearly lay out The mathematics embedded in each standard for a deeper understanding of the content Examples of what effective teaching and learning look like in the classroom Connected standards within each domain so teachers can better appreciate how they relate Priorities within clusters so teachers know where to focus their time The three components of rigor conceptual understanding procedural skills and applications Vocabulary and suggested materials for each grade level band with explicit connections to the standards Common student misconceptions around key mathematical ideas with ways to address them Don't spend another minute poring over the mathematics standards Gojak and Miles have already done the heavy lifting for you Focus instead on how to teach them using The Common Core Mathematics Companion as your one stop guide for teaching planning assessing collaborating and designing powerful mathematics curriculum *Math Success, Grade 1*, 2008-08-26 Provide focused practice for first graders in areas such as place value addition subtraction measurement shapes and word problems Grade appropriate flash cards completion chart and skills matrix are also provided Meets NCTM standards *Mathematics for Kindergarten and Grades I-VI*. Saint Louis (Mo.). Board of Education, 1926

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