

GRADE 10 MATHEMATICS MARCH TEST

QUESTION 1

- 1.1 Copy and complete the following table on your answer sheet. Only tick in the applicable columns.

	N	N ₁	Z	Q	Q'	X	X'
$\sqrt{9} + 8$							
$\frac{5}{2}$							
0,75/3							
$\sqrt{5}$							

- 1.2 Determine between which integers the following irrational number lies:

$$\sqrt{17}$$

- 1.3 Use the ladder method to give the prime factors of 5104.

$$5104 = 2^4 \times 159,5$$

QUESTION 2

Factorise the following expressions:

2.1 $x^2 - 49$

2.2 $2x^2 + 5x - 3$

2.3 $6x^2 - 13x + 6$

2.4 $3x^2 + 9x - 12$

QUESTION 3

Simplify the following expressions:

3.1 $(x - 5)(3x + 2)$

3.2 $6x^2 - 12x + 6$

3.3 $\frac{3x^2 + 12x}{3x}$

QUESTION 4

Simplify the following using the exponential laws.

4.1 $\frac{1}{x^2}$

4.2 $\frac{2x^3 \cdot 3x^2}{4x^5}$

Solve for x:

4.3 $2^x - 5 = 11$

QUESTION 5

Solve for x:

5.1 $(x - 3)(x + 5) = 0$

5.2 $3x^2 + 10x + 7 = 0$

5.3 $\frac{1}{x} + \frac{1}{x+1} = \frac{1}{x+2}$

5.4 $\frac{x+2}{x} + 5 > 8$

5.5 Solve x and y simultaneously:

$$\begin{cases} x + y = 10 \\ x - y = 2 \end{cases}$$

5.6 Jane is 3 years older than her sister. Together they are 19 years old.

$$\begin{cases} J = S + 3 \\ J + S = 19 \end{cases}$$

QUESTION 6

6.1 Use the following triangle to determine the trigonometric ratios:



6.1.1

6.1.2

6.1.3

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Camilla Rothe



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Pullmann, 2017-03-14 Most Americans had no idea what Common Core was in 2013 according to polls But it had been creeping into schools nationwide over the previous three years and children were feeling its effects They cried over math homework so mystifying their parents could not help them even in elementary school They read motley assortments of informational text instead of classic literature They dreaded the high stakes tests in unfamiliar formats that were increasingly controlling their classrooms How did this latest and most sweeping reform of American education come in mostly under the radar Joy Pullmann started tugging on a thread of reports from worried parents and frustrated teachers and it led to a big tangle of history and politics intrigue and arrogance She unwound it to discover how a cabal of private foundation honchos and unelected public officials cooked up a set of rules for what American children must learn in core K 12 classes and how the Obama administration pressured states to adopt them Thus a federalized education scheme took root despite legal prohibitions against federal involvement in curriculum Common Core and its testing regime were touted as an absolute game changer in public education yet the evidence so far suggests that kids are actually learning less under it Why then was such a costly and disruptive agenda imposed on the nation's schools Who benefits And how can citizens regain local self governance in education so their children's minds will be fed a more nourishing intellectual diet and be protected from the experiments of emboldened bureaucrats The Education Invasion offers answers and remedies

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Collapse of the Public Sector Lionel D. Lyles PhD., 2018-07-13 My book demonstrates how classical liberalism was the foundation upon which Thomas Jefferson George Washington Alexander Hamilton and others wrote the Declaration of Independence Constitution and the Bills of Rights however it was rolled back by 1980 and replaced with neoliberalism which was championed by the Reagan Administration In short this ideology has one main aim and that is to shrink government cut the budgets of social programs and give away billions of taxpayer dollars to private business in the form of tax breaks During the Jindal administration and by the end of its first term more than 7 billion worth of tax breaks had been given away to private business A surplus of 1 billion left in the Louisiana treasury by outgoing governor Kathleen Blanco after Hurricane Katrina was given away by the end of the first two months of its first term Today the Louisiana legislature is currently facing a 650 million fiscal cliff and no doubt more budget cuts are in store for the Louisiana public sector

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Report of the Minister of Education Ontario. Dept. of Education,1965 *Annual Report - Chicago Civil Service Commission* ,1918 Vols for 1895 include Chicago Civil Service Commission Minutes of the Commission Digest of education statistics ,1992 *Papers by command* Great Britain. Parliament. House of Commons,1968 Digest of Education Statistics, 1992 Thomas D. Snyder,Charlene M. Hoffman,1992 This document consisting of 7 chapters 35 figures 409 tables plus 20 appendix tables provides statistical data on most aspects of United States education both public and private from kindergarten through graduate school The chapters cover the following topics 1 all levels of education 2 elementary and secondary education 3 postsecondary education 4 federal programs for education and related activities 5 outcomes of education 6 international education and 7 learning resources and technology A wide range of information is presented on a variety of subjects including the number of schools and colleges teachers enrollments and graduates in addition to educational attainment finances federal funds for education employment and income of graduates libraries and international education Supplemental information on population trends attitudes on education education characteristics of the labor force government finances and economic trends provides background for evaluating education data Included among data not appearing in previous editions are the following drug use by teenagers and young adults characteristics of vocational education teachers proportion of 17 year olds taking various science courses federal support for education by type of recipient opinions of teachers about teacher training and number of students and teachers in urban rural and suburban areas A short introduction provides a brief overview of current trends in American education and each chapter highlights significant trends Guides to tabular presentations and sources are provided along with a definitions section and an index MLF **The Public Relations Journal** ,1951 **Abstracts of Papers Presented to the American Mathematical Society** American Mathematical Society,1999 **Sessional Papers** Great Britain. Parliament. House of Commons,1968

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web however the electrical and electronic manufacturers association of canada has suggested that all purchasers of pvc insulated jacketed products be advised of the following non metallic coverings of electrical cables

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web note allowable ampacities are for general use as specified by canadian electrical code 2002 table 2 based on not more than 3 copper or aluminum conductors in raceway or cable

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web may 11 2023 table 57 referenced by rule 16 210 6 and table 5a provides allowable ampacities for class 2 copper conductors based on the size of the conductor and whether it is a single conductor in free air or not more than three copper conductors in raceway or cable and an ambient temperature of 30 degrees centigrade

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web warning installation of electrical wire can be hazardous if done improperly can result in personal injury or property damage for safe wiring practices consult the national electrical code and your local building inspector wire size and amp ratings cerro wire l l c rev 02 2015 rev 02 2015

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web table 1 and 3 ampacities for 2 to 4 single conductors table 5b tables 2 and 4 for more than 3 insulated conductors table 5c for vertical layers of insulated conductors in ventilated ladder type trays

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web feb 1 2021 by william bill burr rule 28 000 scope states that section 28 motors and generators is a supplementary or amendatory section of the code and provides additional and specific requirements for the installation wiring methods conductors protection and control of all motors and generators

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web may 1 2020 although as per 90 c column of table 2 the ampacity of such no 3 awg conductor is 115 a in accordance with provisions of rule 4 006 the ampacity of this conductor would be assigned based on 75 c column of

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web table 2 b maximum ampereage for common wire sizes per canadian electrical code cec canada copper wire aluminum or copper size clad aluminum temperature 60 c 75 c 90 c 60 c 75 c 85 90 c rating 15 15 15 14 20 20 20 12 15 15 15 30 30 30 10 25 25 25 40 45 45 8 30 30 30 55 65 65 6 40 50 55 70 85 4 55 65

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web mar 14 2017 rule 4 004 ampacity of wires and cables contains 7 items each in subrules 1 and 2 covering scenario options each for copper and aluminum that need to be studied and chosen in addition there are 21 other factors in

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web in canada the canadian electrical code cec provides guidelines and tables to help determine the correct wire size based on various factors in this article we will walk you through the step by step process of calculating wire size according to the cec

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web table 2 and 4 allowable ampacities of less than 4 insulated conductors rated 0 2000 volts based on 30 c ambient temperature and in a raceway or cable this table provides ampacity values for various sizes of copper and aluminum conductors based on their insulation type and the termination temperature rating

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web preface this is the eleventh edition of csa c22 2 no 0 general requirements canadian electrical code part ii it supersedes the previous editions published in 2010 1991 1982 1975 1960 1956 1950 1941 1936 and 1932 changes in this edition include the following a updates of definitions to align with canadian electrical code

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web for example a 10 awg 3c 600 v cable with xhhw singles would have an ampacity of 35 amps if using the 75 c column in nec 2014 table 310 15 b 16 allowable ampacities of insulated conductors rated up to and including 2000 volts 60 c through 90 c not more than three current carrying conductors in raceway cable