



BASISLYNASSESSERING

GRAAD 10

Naam: _____

Member ID: _____

Tyd: 90 Minute

NO CALCULATOR ALLOWED
FOR Q1-Q28. USE YOUR BRAIN.

- Bereken:
- 7003/
7004
- 1) $-1 + 6 = \underline{\hspace{2cm}}$ FOR MARK
- 2) $5 - 9 = \underline{\hspace{2cm}}$ FOR MARK
- 3) $-7 - 2 = \underline{\hspace{2cm}}$ FOR MARK

- Bereken:
- 4) $-5 \times 10 \times -3$ 7005
FOR MARK
- 5) $28 \div -7 = \underline{\hspace{2cm}}$ FOR MARK
- 6) $4 \times 3 + 6 \times 5$ 7006
FOR MARK
- 7) $8 + 2 \times 9$ 7006
FOR MARK
- 8) $-30 \div 10 \times 5 + 7$ 7007
FOR MARK
- 9) $3 \times 2 \times (72 \div 9) - 13$ 7007
FOR MARK

This test is mainly to identify the learner's problem areas. The final mark is only a rough estimation, as the weight of all the questions are 1 mark irrespective of number of steps.

70

10) $\frac{2}{6}$ van $36 - 10$ 7008

FOR MARK

11) $4 \times 10 \div 5 \times (13 - 11)$ 7009

FOR MARK

- Bepaal die ekwivalente breuke:
- 12) $\frac{5}{7} = \frac{\hspace{1cm}}{21}$ 7019
FOR MARK
- 13) $\frac{2}{9} = \frac{8}{\hspace{1cm}}$ FOR MARK

- Vereenvoudig:
- 14) $\frac{35}{77} =$ 7019
FOR MARK
- 15) $\frac{24}{80} =$ FOR MARK

Vul in $<$, $>$ of $=$ 7019

16) $\frac{3}{5}$ $\frac{20}{25}$ FOR MARK

17) $\frac{7}{9}$ $\frac{3}{5}$ 7019
FOR MARK

- Skryf as 'n gemengde breuk:
- 18) $\frac{11}{2} =$ 7020
FOR MARK
- 19) $\frac{38}{5} =$ FOR MARK

Skryf as 'n onegte breuk:

20) $8\frac{2}{3} =$

7020

FOR MARK

21) $3\frac{9}{11} =$

FOR MARK

Bereken:

22) $\frac{5}{7} + \frac{4}{7} =$

7021

FOR MARK

23) $\frac{1}{6} + \frac{4}{9}$

7021

FOR MARK

24) $1\frac{1}{3} + 2\frac{3}{4}$

7022

FOR MARK

25) $\frac{2}{3} \times \frac{5}{8}$

7023

FOR MARK

26) $\frac{7}{9}$ van 45

7023

FOR MARK

27) $\frac{3}{8} \div \frac{1}{7}$

7023

FOR MARK

28) $2\frac{1}{4} \times 5\frac{5}{6} \div 1\frac{11}{24}$

7024

FOR MARK

29) $3x - \frac{x^2}{3} - 7x^3 + 10$

8081

a) Hoeveel terme is in die uitdrukking?

FOR MARK

b) Wat is die veranderlike?

8082

FOR MARK

c) Wat is die konstante term?

FOR MARK

d) Wat is die koëfisiënt van x^3 ?

8083

FOR MARK

e) Wat is die graad van die uitdrukking?

FOR MARK

f) Herrangskik die uitdrukking in dalende magte van x .

8083

FOR MARK

Vereenvoudig:

30) $5x + 2x$

8084

FOR MARK

31) $3x^2 + 4xy + 2x + x^2 + 2xy$

8084

FOR MARK

Vereenvoudig:

32) $6 \times a \times a \times a \times b \times b$

8085

FOR MARK

33) $(6g^2h)(2gh^3)$

8085

FOR MARK

34) Trek $3a^2 + 9a - 6$ af van $4a^2 + 5a - 7$ 8089

	FOR MARK
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As $x = -3, y = 3, z = 4$ bepaal:

35) $12z - 20$ 8090

	FOR MARK
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36) $\frac{5y - 3}{3x + 5}$ 8090

	FOR MARK
--	-------------

37) $(3x^2)^3 \times (x^4)^2$ 8093

	FOR MARK
--	-------------

38) $\sqrt{36x^8y^{14}}$ 8094

	FOR MARK
--	-------------

39) $\sqrt[3]{27g^{12}k^6}$ 8094

	FOR MARK
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Vereenvoudig:

40) $2x^5(3x^3)^2$ 9001

	FOR MARK
--	-------------

41) $\left(\frac{5}{x^{-3}}\right)^2$ 9001

	FOR MARK
--	-------------

42) $(5xy)^2 \times \frac{2x^2y^0}{x^7}$ 9001

	FOR MARK
--	-------------

43) $\frac{x^4 \times x^9y^{15}}{(x^3y^2)^3 \times (xy^2)^4}$ 9002

	FOR MARK
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Skryf in uitgebreide notasie:

44) $5,8 \times 10^8$ 9003

	FOR MARK
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Skryf in wetenskaplike notasie:

45) 94 000 000 9003

	FOR MARK
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46) 0,0000031 9003

	FOR MARK
--	-------------

47) $(3,4 \times 10^{-4}) + (3,4 \times 10^{-5})$ 9003

	FOR MARK
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Vereenvoudig:

48) $-5x^{-3}y^2 \times -8x^9y^6$ 9004

	FOR MARK
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49) $5x(-x^2 + x - 2)$ 9005

	FOR MARK
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50) $4x(x + 2) - 2x(-7x - 3)$ 9005

FOR MARK

51) $(x + 5)(3x - 2)$ 9006

FOR MARK

52) $(x + 4)^2$ 9007

FOR MARK

53) $4x - \{3x - 2[2(x + 5) - 6]\}$ 9008

FOR MARK

Faktoriseer:

54) $16x^4y^8 - 24x^3y^7 + 8x^2y^3$ 9010

FOR MARK

55) $9c^2 - d^2$ 9011

FOR MARK

56) $x^2 - 16x + 15$ 9012

FOR MARK

57) $3xy + 6x - wy - 2w$ 9013

FOR MARK

Vereenvoudig:

58) $\frac{28x^8y^3 - 42x^3y^6 - 7x^2y^4}{7x^2y^3}$ 9016

FOR MARK

59) $\frac{x^2}{9} \times \frac{18}{x}$ 9016

FOR MARK

60) $\frac{2x^2 - 8x}{5x - 20}$ 9017

FOR MARK

61) $\frac{x^2 - 25}{5x} \div \frac{x - 5}{10x}$ 9018

FOR MARK

62) $1 - x = 3 - (-2x - 4)$ 9020

FOR MARK

63) $\frac{x+2}{4} - \frac{x-6}{3} = 1$

9020

FOR
MARK

70) $4^{3-2x} = 16^{6x-2}$

9023

FOR
MARK

64) $2x(x-8) = 0$

9021

FOR
MARK

65) $(x-7)(3x+15) = 0$

9021

FOR
MARK

66) $x^2 - 2x = 0$

9022

FOR
MARK

67) $x^2 - 2x - 35 = 0$

9022

FOR
MARK

68) $3^x = 27$

9023

FOR
MARK

69) $3 \cdot 6^x = 3$

9023

FOR
MARK