



BASISLYNASSESSERING

GRAAD 11

Naam: _____

Member ID: _____

Tyd: 90 Minute

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

- Bereken:
- | | | |
|---|---------------|-------------|
| 1) $-1 + 6 =$ _____ | 7003/
7004 | FOR
MARK |
| 2) $5 - 9 =$ _____ | | FOR
MARK |
| 3) $-7 - 2 =$ _____ | | FOR
MARK |
| 4) $-5 \times 10 \times -3$ | 7005 | FOR
MARK |
| _____ | | |
| 5) $28 \div -7 =$ _____ | | 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.

72

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

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

Bepaal die ekwivalente breuke: 7019

12) $\frac{5}{7} = \frac{\quad}{21}$ FOR
MARK

13) $\frac{2}{9} = \frac{8}{\quad}$ FOR
MARK

Vereenvoudig: 7019

14) $\frac{35}{77} =$ FOR
MARK

15) $\frac{24}{80} =$ FOR
MARK

Vul in <, > of = 7019

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

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

Skryf as 'n gemengde breuk: 7020

18) $\frac{11}{2} =$ FOR
MARK

19) $\frac{38}{5} =$ FOR
MARK

Skryf as 'n onegte breuk: 7020

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

8082

b) Wat is die veranderlike?

FOR MARK

c) Wat is die konstante term?

FOR MARK

8083

d) Wat is die koëfisiënt van x^3 ?

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

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

35) $12z - 20$

8090

FOR MARK

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

Vereenvoudig:

40) $-6x^3(x^4 - 2)$ 1001

_____ FOR MARK

41) $(2a - 4b) + 7(a - b)$ 1001

_____ FOR MARK

42) $(-2x - 2y)(5x + y)$ 1002

_____ FOR MARK

Faktoriseer:

43) $4d^3g^8 - 12d^5g^4$ 1004

_____ FOR MARK

44) $x^2 - 64$ 1005

_____ FOR MARK

45) $y^3 + 125$ 1006

_____ FOR MARK

46) $x^2 + 10x + 21$ 1007

_____ FOR MARK

47) $x^2 + 2x - 24$ 1007

_____ FOR MARK

48) $6x^2 + 7x - 3$ 1008

_____ FOR MARK

49) $5(t + p) - k(t + p)$ 1009

_____ FOR MARK

50) $6x^2 + 2x - 3xy - y$ 1010

_____ FOR MARK

51) $xy + x^2 + 3x + 3y$ 1011

_____ FOR MARK

Vereenvoudig:

52) $\frac{9p^3}{q^3} \times \frac{q^3}{3p^2}$ 1017

_____ FOR MARK

53) $\frac{x^2 + 10x + 21}{3(x^2 - 9)} \div \frac{2x^2 + 14x}{30x^2 - 90x}$ 1017

_____ FOR MARK

$$54) \frac{2}{x+5} + \frac{3}{x-3} \quad \underline{1018}$$

FOR
MARK

Vereenvoudig:

$$55) \frac{x^2 y^3 \times (x^3 y^3)^2}{x^6 y^3} \quad \underline{1023}$$

FOR
MARK

$$56) \frac{x^2 \times x^{-4}}{x^{-7} \times x^3} \quad 1023$$

FOR
MARK

$$57) x^{-2} \times \sqrt[3]{x^6} \quad 1023$$

FOR
MARK

$$58) \frac{5^{x+1} + 5^{x+2}}{5^{x+1} + 5^x} \quad 1024$$

FOR
MARK

$$59) \frac{25^{2n-4}}{5^{3n+1} \cdot 5^{2n-3} \cdot 5} \quad 1025$$

FOR
MARK

Los vir die volgende vergelykings op:

$$60) 1 - 2x = 3 + 2(x + 2) \quad 1027$$

FOR
MARK

$$61) \frac{5}{4} + \frac{2}{3x} = 4 - \frac{x+8}{12x} \quad 1028$$

FOR
MARK

$$62) 3^{4y-6} = 3^{-2} \quad 1029$$

FOR
MARK

$$63) 3.5^x = 375 \quad 1029$$

FOR
MARK

64) $x^2 - 10x + 24 = 0$ 1030

FOR
MARK

Teken die getallelyne:

69) $x < 4 ; x \in \mathbb{R}$ 1037

FOR
MARK

Los die gelyktydige vergelykings op:

65) $2x + y = 7$
 $3x + 2y = 12$ 1031

FOR
MARK

70) $x \in (5 ; 9]$ 1037

FOR
MARK

Los vir die volgende ongelykhede op:

71) $5x + 1 \leq 6x - 2$ 1038

FOR
MARK

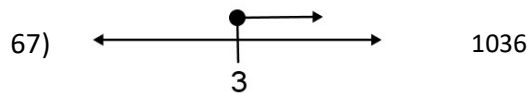
66) Maak x die onderwerp van die formule:
 $y = mx^2 + c$ 1033

FOR
MARK

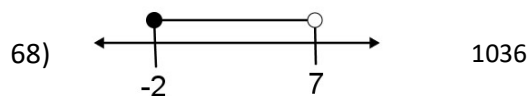
72) $-1 < 2x - 3 \leq 5$ 1038

FOR
MARK

Skryf die intervalnotasie of ongelykheidsnotasie vir die volgende getallelyne:



FOR
MARK



FOR
MARK