

# HOEKOM?

## 1. HOEKOM

- IS " 'N MIN MAAL 'N MIN 'N PLUS"?
- IS  $2x + 3x = 5x$ ?
- IS OPPERVLAKTE VAN 'N DRIEHOEK = HALF BASIS X HOOGTE?
- MOET ONS IN WISKUNDE EERS MAAL VOOR ONS OPTEL?

## 2. HOEKOM

- NOEM ONS 'N BREUK 'N "RASIONALE" GETAL?
- NOEM ONS  $\Delta$  DIE "DISKRIMINANT"?
- NOEM ONS DIT 'N "PARABOOL"?
- NOEM ONS DIE VERHOUDING  $\frac{O}{S}$  DIE "SINUS" EN  $\frac{O}{A}$  DIE "TANGENS"?

## 3. HOEKOM IS

- $\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \times \frac{d}{c}$
- $\frac{a}{b} \times \frac{c}{d} = \frac{a \times c}{b \times d}$
- $2(x + 3) = 2x + 6$
- $\frac{a}{b} + \frac{c}{d} = \frac{ad + bc}{bd}$



## 4. HOEKOM

- IS 1 NIE 'N PRIEMGETAL NIE?
- MAG MENS NIE DEUR 0 DEEL NIE?
- SKRYF ONS  $a^{-n} = \frac{1}{a^n}$ ?
- IS 'N OMWENTELING  $360^\circ$ ?



## 5. HOEKOM

- DIFFERENSIEER ONS?
- FAKTORISEER ONS?
- TEL ONS GELYKSOORTIGE TERME OP?
- VEREENVOUDIG ONS ALGEBRAÏESE BREUKE?

## 6. HOEKOM

- SKRYF ONS "1x" AS "x" EN "x<sup>1</sup>" AS "x"?
- SKRYF ONS "IS GELYK AAN" AS "="?
- SKRYF ONS  $aaaaa = a^5$ ?
- SKRYF ONS  $3,666666... = 3,\overline{6}$ ?

# WHY?

## 1. WHY

- IS "A MINUS TIMES A MINUS A PLUS"?
- IS  $2x + 3x = 5x$ ?
- IS AREA OF A TRIANGLE = HALF BASE  $\times$  HEIGHT?
- MUST ONE IN MATHEMATICS FIRST MULTIPLY BEFORE ONE ADDS?

## 2. WHY

- DO WE CALL A FRACTION A "RATIONAL" NUMBER?
- DO WE CALL  $\Delta$  THE "DISCRIMINANT"?
- DO WE CALL IT A "PARABOLA"?
- DO WE CALL THE RATIO  $\frac{O}{S}$  THE "SINE" AND  $\frac{O}{A}$  THE "TANGENT"?

## 3. WHY IS

- $\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \times \frac{d}{c}$  ?
- $\frac{a}{b} \times \frac{c}{d} = \frac{a \times c}{b \times d}$  ?
- $2(x+3) = 2x+6$  ?
- $\frac{a}{b} + \frac{c}{d} = \frac{ad+bc}{bd}$  ?



## 4. WHY

- IS 1 NOT A PRIME NUMBER?
- MAY WE NOT DIVIDE BY ZERO?
- DO WE WRITE  $a^{-n} = \frac{1}{a^n}$  ?
- IS A REVOLUTION  $360^\circ$ ?



## 5. WHY

- DO WE DIFFERENTIATE?
- DO WE FACTORISE?
- DO WE ADD LIKE TERMS?
- DO WE SIMPLIFY ALGEBRAIC FRACTIONS?

## 6. WHY

- DO WE WRITE "1x" AS "x" AND "x<sup>1</sup>" AS "x" ?
- DO WE WRITE "IS EQUAL TO" AS "=" ?
- DO WE WRITE  $aaaaa = a^5$  ?
- DO WE WRITE  $3,666666... = 3,\overline{6}$  ?