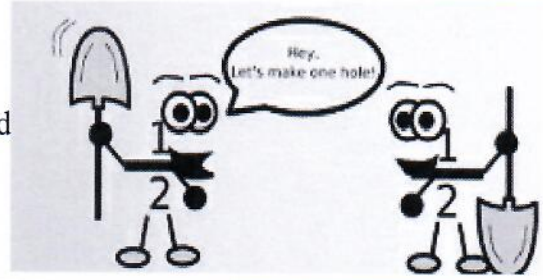


Instructions:

1. No calculators may be used.
2. All work must be completed in pencil. No tippex allowed
3. Marks have been allocated for working out.
4. Rule off after each section.
5. Check your work before handing in.



QUESTION 1: MULTIPLE CHOICE

Write down the correct answer, from within the table, on your answer page.

a	25% written as a decimal:	<input type="text" value="2,5"/>	<input type="text" value="0,25"/>	<input type="text" value="25,0"/>	<input type="text" value="25,00"/>
b	$\frac{1}{2} + 0,5 + 2\frac{1}{2} + 2,5 =$	<input type="text" value="6"/>	<input type="text" value="4,5"/>	<input style="font-family: monospace; font-size: 1.2em; vertical-align: middle;" type="text" value="5 \frac{1}{2}"/>	<input type="text" value="5,10"/>
c	5 466 is <u>not</u> equally divisible by	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="2"/>	
d	$4,05 \div 100 =$	<input type="text" value="0,00405"/>	<input type="text" value="405"/>	<input type="text" value="0,405"/>	<input type="text" value="0,0405"/>
e	$10\frac{2}{5}$ written as an improper fraction is:	<input type="text" value="102/5"/>	<input type="text" value="52/5"/>	<input type="text" value="2/50"/>	<input type="text" value="25/10"/>
f	How many lines of symmetry are there in the following shape? <input type="text" value="1"/> <input type="text" value="2"/> <input type="text" value="3"/> <input type="text" value="4"/>				
g	$a(b+c) = (a \times b) + (a \times c)$	<input type="text" value="True"/>	<input type="text" value="False"/>		
h	$\frac{4}{50}$ written as a decimal fraction is:	<input type="text" value="0,04"/>	<input type="text" value="0,40"/>	<input type="text" value="0,08"/>	<input type="text" value="0,8"/>
i	5 ; 6 ; 11 ; 17 ; ____ The following number in this sequence is:	<input type="text" value="19"/>	<input type="text" value="22"/>	<input type="text" value="23"/>	<input type="text" value="28"/>
j	80 mm = □ cm	<input type="text" value="0,8"/>	<input type="text" value="0,08"/>	<input type="text" value="8"/>	<input type="text" value="800"/>

QUESTION 2: WHOLE NUMBERS		25
a	Insert brackets to make the following true: $7 - 4 + 5 - 2 \times 2 = 9$ Re-write the sum with brackets on your answer sheet.	1
b	Use the ladder method to determine the prime factors of 120 . Write the prime factors in exponential form to represent the number.	3
c	Simplify the following ratios: 40: 280: 400	3
d	List all the multiples of 8 between 30 and 60.	2
e	Calculate the <u>difference</u> between the values of the underlined digits: <u>5</u>49 <u>9</u>18	3
f	What is the LCM of 15 ; 5 and 20?	3
g	What is the HCF of 60 and 48 ?	3
h	2 hours 30 minutes = _____ minutes	2
i	Round off 1 894,639 to the nearest hundredth.	1
j	Round off 5 555 555 to the nearest million.	1
k	240km/ hour = □ km/minute	2
l	5 and a half years = months	1

QUESTION 3: FRACTIONS		30			
a	Calculate the value of a: $\frac{22}{a} = 5\frac{1}{2}$	1	b	$5\frac{1}{3} = \frac{x}{3}$	1
c	$1\frac{9}{10} + (0,9 \times 200)$	3	d	$\frac{4}{5} + \frac{\square}{10} = 1$	1
e	$3 - \frac{8}{9} =$	1	f	$(0,3)^2$	2
g	$5\frac{1}{4} - 2\frac{3}{5} + 1\frac{1}{2}$	4	h	$\frac{2}{3}$ of R1 290 =	3
i	$3\frac{1}{8} \times 3\frac{3}{5} \times 1\frac{5}{9}$	4	j	$(0,226 \times 100) - (5,2 \div 100)$	4
k	$1,05 \div 4$	3	l	$0,2 \times 0,1 \times 1,5 \times 2$	3

QUESTION 4: EXPONENTS		15
a	$(5 \times 10^2) + (2 \times 10^0) =$	3
b	$\sqrt{\frac{36}{4}}$	1
c	$\sqrt[2]{2 \times 2 \times 5 \times 2 \times 2 \times 5}$	2
d	$1^9 + 2^2 + \sqrt[2]{81} = 3^2 + \sqrt[2]{?}$	3
e	$2^3 + \sqrt[3]{21 + 6}$	3
f	$(3 + 2)^2 + (3 + 2^2)$	3

QUESTION 5: CALCULATIONS		10
a)	$4\,516 \times 215$	3
b)	$486,71 - (29,774 + 4,5)$	4
c)	$8\,451 \div 15$	3

QUESTION 6: PERCENTAGES				10	
a	Write $\frac{11}{20}$ as a percentage.	1	b	Write 180% as a mixed number in its simplest form.	2
c	Calculate 80% of R400	3	d	Calculate 33,3% of R450	2
e	Convert $\frac{18}{30}$ to a percentage.	1	f	Fill in $< = >$ 12,5% _____ 12,05%	1

Use the back of this page to double-check your work before handing in.