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Mathematics
Grade 6 Multiplication & Division



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GRADE 6 MATHEMATICS CONSOLIDATION MODULE: MULTIPLICATION & DIVISION

Developed by Mr W George

CAPE WINELANDS EDUCATION DISTRICT

Multiplication and Division

INSTRUCTIONS:

1. Do all the exercises in your classwork book showing all workings.
2. Number according to the questions per section.
3. First attempt to answer all the questions before you check answers at the end of each section.
4. Apply your knowledge to answer the questions.

Dear learner, the purpose of these exercises is to provide you opportunity to practice Geometric Patterns in Maths. It was developed specially for you and we trust that you will benefit from this. Enjoy!!

SECTION A: Routine Procedures

AFDELING A: Items		Items	
1	$41 \times 7 =$	11	$4 \times 5 \times 6 =$
2	$900 \times 40 =$	12	$\square \div 4 = 36 \div 3$
3	$170 \times 800 =$	13	Hoeveel ure in 182 minute? / How many hours in 182 minutes?
4	Wat is die maklikste manier om $2 \times 17 \times 5$ te bereken? What is the easiest way to calculate $2 \times 17 \times 5$?	14	$452 \div 4 =$
5	$3 \times 74 \times 10 =$	15	$625 \div 5 =$
6	Druk die volgende as verhoudings uit in eenvoudigste vorm; Express the following ratios in its simplest form a) 40cm tot/to 45cm b) 48 reën-dae/ rainy days tot/to 66 reën-dae/ rainy days	16	Hoeveel klaskamers kan elk 6 nuwe stoele kry as daar 252 nuwe stoele beskikbaar is? How many classrooms can get 6 new chairs each if the school received 252 new chairs?
7	Bereken die waarde van \square in die volgende: Calculate the value of \square in the following $\square \div 4 = 36 \div 3$ so $\square =$	17	Veertien blikkies koeldrank kos R126. Hoeveel kos een blikkie? Fourteen cans of cooldrink cost R126. What is the price of one can?

8	<p>As $384 \div 16 = 2 \square$, dan is $\square =$ If $384 \div 16 = 2 \square$, then $\square =$</p>	18	<p>'n Wiskunde klub het 25 lede waarvan 11 mans en die res vroue is. Wat is die verhouding van alle mans tot vroue in die klub. A math club has 25 members, of which 11 are males and the rest are females. What is the ratio of males to all club members?</p>
9	<p>Skryf die heelgetal neer: / Write the following whole number: $(6 \times 100) + (9 \times 1\,000\,000) + (4 \times 10) + (8 \times 1\,000)$</p>	19	<p>Watter getal het 'n res van 1 as dit met 5 en 7 gedeel word? Which number has a remainder of 1 if you divide it by 5 and 7?</p>
10	<p>$12 + 3 \times 3 + 15 \div 5$ is gelyk aan... $12 + 3 \times 3 + 15 \div 5$ is equal to...</p>	20	<p>Die verhouding seuns tot meisies in 'n swemklub was 2 : 4. Daar was 14 meisies. Hoeveel lede in die swemklub? The ratio of girls to boys in a a swimming club was 2 : 4. There were 14 girls. How many total members were there in the club?</p>

B

VERMENIGVULDIGING EN DELING – PROBLEEMOPLOSSING MULTIPLICATION AND DIVISION – PROBLEM SOLVING

1	Ben koop 5 sakkies piesangs. Elke sakkie het 4 trosse piesangs met 3 piesangs aan elke tros. Hoeveel piesangs koop Ben? Ben buys 5 bags of bananas. Each bag has 4 bunches of bananas with 3 bananas in each bunch. How many bananas is he buying?	
2	Die sye van 'n driehoek is $AB = 12\text{cm}$, $AC = 16\text{cm}$ en $BC = 20\text{cm}$. Bepaal die verhouding van die sye $AB : AC : BC$ in die eenvoudigste vorm. The sides of a triangle is $AB = 12\text{cm}$, $AC = 16\text{cm}$ en $BC = 20\text{cm}$. Determine the ration of sides $AB : AC : BC$ in its simplest form.	
3	Paul het 'n leë tas wat 200 g weeg. Hy pak 7 pakkies met 'n gewig van 800 g elk daarin. Bereken die totale massa van die gepakte tas in kilogram. Paul has an empty suitcase weighing 200g. He packed it with 7 bags each weighing 800g. Calculate the total mass of the suitcase in kilogram.	
4	Siba koop 4 bokse krale. In elke boks is daar 10 pakkies en elke pakkie het 15 krale. Hoeveel krale koop sy? Siba buys 4 boxes of beads. In each box there are 10 packets and every packet has 15 beads. How many beads does she buy?	
5	<p>Hier is die pryse van verskillende items by 'n klerefabriek:</p> <p>Manshemp: R46 Mansbroek: R74 Baadjie: R89</p> <p>'n Klerewinkel plaas die volgende bestelling by die fabriek:</p> <p>7 286 manshemde 5 836 mansbroeke 9 557 baadjies</p> <p>(a) Bereken die koste van al die hemde. (b) Bereken die koste van al die broeke. (c) Bereken die koste van al die baadjies. (d) Hoeveel beloop die totale bestelling?</p>	<p>Here are the prices of different items made by a clothing factory:</p> <p>A men's shirt: R46 A pair of men's trousers: R74 A jacket: R89</p> <p>A clothing shop places the following order with the factory:</p> <p>7 286 men's shirts 5 836 pairs of men's trousers 9 557 jackets</p> <p>(a) Calculate how much the shirts will cost in total. (b) Calculate how much the trousers will cost in total. (c) Calculate how much the jackets will cost in total. (d) Calculate the total value of the order.</p>
6	Die prys van petrol is 1 051 sent per liter. (a) Hoeveel sal jy vir 45 ℓ betaal? (b) Hoeveel sal 93 ℓ jou kos?	<p>The price of petrol is 1 051 cents per litre.</p> <p>(a) How much will you have to pay for 45 ℓ? (b) How much will 93 ℓ cost you?</p>

7	Sarie verdien R8 877 per maand. Sy het 'n kontrak vir 3 jaar en 8 maande. Hoeveel sal sy in die tyd verdien? Sarie earns R8 877 per month. She has a contract for 3 years and 8 months. How much will she earn during this time?
8	Drie maats bring kospakkies in die verhouding 1 : 2 : 3 vir 'n projek. As die laaste een 18 kospakkies gebring het, hoeveel het elkeen van die ander gebring? Three friends bring food parcels in the ratio 1 : 2 : 3 for a project. If the last friend bring 18 food parcels, how many did the other two bring?
9	'n Klein lugredery het verlede jaar 1 273 vlugte onderneem. Hoeveel mense het van hierdie lugredery gebruik gemaak as daar elke keer 167 passasiers vervoer is? A small national airliner made 1 273 trips last year. If it carried 167 passengers each time, how many people made use of this airliner last year?
10	Hendrik se permit laat hom toe om elke dag 1 255 kg vis te vang. Hoeveel kilogram vis mag hy in 124 dae vang? Hendrik's fishing licence allows him to catch 1 255 kg of fish every day. How many kilograms of fish is he allowed to catch in 124 days?
11	'n Rekenaarfabriek bou elke dag 2 784 rekenaars. As die fabriek 24 uur per dag werk, hoeveel rekenaars word in een uur gebou? A computer factory builds 2 784 computers every day. If the factory operates 24 hours a day, how many computers are built in one hour?
12	Peppy wil 'n skaatsplank koop wat R1 875 kos. Hy was motors in die buurt en vra R28 vir elke motor wat hy was. Hoeveel motors moet hy was om genoeg geld te verdien om die skaatsplank te koop? Peppy wants to buy a skateboard that costs R1 875. He washes cars in the neighbourhood and earns R28 for every car he washes. How many cars must he wash to earn enough money so that he can buy the skateboard?
13	'n Passasiersvliegtuig lê 2496km af in 4 ure. A Passenger plane covers 2496km in 4 hours. a) Skryf sy verhouding (koers) in eenvoudigste vorm. Write the rate in its simplest form. b) Wat sal die afstand wees wat die vliegtuig in 'n halfuur aflê? Skryf in eenvoudigste vorm. What will the distance be in half an hour?
14	Mnr. Nkosi kan 26 bondels hout op 'n keer met sy bakkie vervoer. Hoeveel vragte moet hy laai om 3 302 bondels hout te vervoer? Mr Nkosi can transport 26 bundles of wood per load with his bakkie. How many loads will he need to transport 3 302 bundles of wood?
15	Kaptein Hook en sy 35 seerowers het 'n kis met goue munte ontdek. Hulle het die 4 752 munte gelykop tussen hulle verdeel. Hoeveel munte het elk van die 36 mans gekry? Captain Hook and his 35 pirates discovered a chest with gold coins. They shared the 4 752 coins equally amongst them. How many coins did each of the 36 men get?
16	Die skool se dramaklub voer 'n toneelstuk op. Elke lid van die dramaklub moet 26 kaartjies verkoop. Saam moet hulle 1 404 kaartjies verkoop. Hoeveel lede het die dramaklub? The school's drama club is putting on a play. Each club member has to sell 26 tickets. The members have to sell a total of 1 404 tickets. How many members does the drama club have?
17	'n Groep sokkerspelers oefen hulle doelskoppe. Hulle skop altesaam 1 470 keer na die doelhok. Elke speler het 35 keer geskop. Hoeveel spelers het aan die oefening deelgeneem? A number of soccer players practised kicking goals. In total, 1 470 kicks were made. Each player kicked 35 times. How many players took part in this practice session?
18	'n Skool het R9 200 beskikbaar om boeke teen R88 elk te koop. Hoeveel boeke kan die skool koop? A school has R9 200 available to buy books at R88 each. How many books can the school buy?
19	$3\ 060 \div 3 =$
20	$7\ 814 \div 42 =$

C

MEERVOUDIGE KEUSEVRAE/MULTIPLE CHOICE QUESTIONS

1	<p>'n Boer het 6 hoenders. Elke hoender het 7 kuikens. Hoeveel kuikens is daar altesaam? A Farmer has 6 chickens. Every chicken has 7 chicks. How many chicks altogether?</p> <p>A 13 B 24 C 42 D 67</p>	<p>11</p> <p>Watter som se antwoord is 37? Which sum does not give an answer of 37?</p> <p>A $6 \times 5 + 7$ B $(6 \times 5) + 7$ C $6 \times (5 + 7)$ D $(6 \times 5 + 7)$</p>
2	<p>$12 + 3 \times 3 + 15 \div 5$ is gelyk aan ... / equal to...</p> <p>A 12 B 24 C 48 D 7</p>	<p>12</p> <p>'n Groep voorskoolse leerders het 15 seuns en 12 meisies. Wat is die verhouding van seuns tot meisies? A group of preschoolers has 15 boys and 12 girls. What is the ratio of girls to boys?</p> <p>A 5 : 4 B 4 : 5 C 5 : 5 D 2 : 3</p>
3	<p>Watter een van die volgende is <i>onwaar</i>? Which one of the following is not true?</p> <p>A $(4 + 1) \div (1 + 4) = 1$ B $2 \div 2 + 2 \div 2 = 2$ C $3 + 3 \times 3 + 3 = 21$ D $5 + 5 \times (5 - 5) = 5$</p>	<p>13</p> <p>Met watter getal moet jy die ★ vervang om die volgende som korrek te voltooi? With which number must you replace the ★ to complete the following sum correctly?</p> $\begin{array}{r} 4 \quad \star \quad 8 \quad 1 \\ \times \qquad \qquad \qquad 8 \\ \hline 3 \quad 4 \quad 2 \quad 4 \quad 8 \end{array}$ <p>A 2 B 6 C 4 D 3</p>
4	<p>'n Valskermspringer val 144 meter in drie sekondes. Hoe vêr val hy per sekonde? A skydiver falls 144 metres in three seconds. How far does the skydiver fall per second?</p> <p>A 68m B 40m C 88m D 48m</p>	<p>14</p> <p>Los die volgende getallesin op: $1\,000 + 100 \times \dots = 1\,210\,000$ Solve the following number sentence: $1\,000 + 100 \times \dots = 1\,210\,000$</p> <p>A 11 000 B 100 C 1 100 D 10</p>
5	<p>Watter uitdrukking het dieselfde antwoord as 24×36? Which expression has the same answer as 24×36</p> <p>A $20 \times 4 \times 30 \times 6$ B $20 + 4 \times 30 + 6$ C $(20 \times 30) + (4 \times 6)$ D $(30 \times 24) + (6 \times 24)$</p>	<p>15</p> <p>Watter getal is nie 'n faktor van 36 nie? Which number is not a factor of 36?</p> <p>A 3 B 4 C 8 D 18</p>

6	<p>Watter vergelyking is ekwivalent aan 126×3? Which equation is equivalent to 126×3? A $126 \times 3 = 63 \times 9$ B $126 \times 3 = 63 \times 5$ C $126 \times 3 = 63 \times 3 \times 2$ D $126 \times 3 = 63 \times 3 \times 1$</p>	16	<p>Skryf as 'n heelgetal neer: Write as a whole number: $(6 \times 1\,000\,000) + (5 \times 100\,000) + (1 \times 1\,000) + (8 \times 1)$ A 6 501 800 B 6 510 008 C 6 501 008 D 6 501 080</p>
7	<p>Jy teken 84 punte aan in ses wedstryde. Hoeveel punte het jy per wedstryd aangeteken? You score 84 points in six games. How much do you score per game? A 24 B 44 C 14 D 4</p>	17	<p>Hoeveel 350 milliliter lemoensap bottels kan gevul word uit 'n houer wat 35 liter lemoensap bevat? How many 350 millilitre orange juice bottles can be filled from a container holding 35 litres of orange juice? A 35 B 10 C 70 D 100 E 60</p>
8	<p>826×243 is meer as 824×243. Hoeveel meer? 826×243 is more than 824×243. How much more? A 2 B 243 C 824 D 486 E None of these Nie een hiervan nie</p>	18	<p>Watter getalsin is korrek? / Which number sentence is correct? 'n Plaaswerker verdien R150 per dag. Sy werk 5 dae per week. Hoeveel geld sal sy in 6 weke verdien? A farm worker earns R150 per day. She works 5 days per week. How much money does she earn in 6 weeks? A $R150 \times 5 \div 6$ B $R150 + 5 + 6$ C $R150 \times 5 \times 6$ D $R150 \div 5 \times 6$</p>
9	<p>'n Pomp beweeg 42 liter water in 7 minute. Bepaal die koers? A pump moves 42 gallons in seven minutes. Find the unit rate. A 5 liters per minuut / 5 litres per minute B 7 liters per minuut / 7 litres per minute C 10 liters per minuut / 10 litres per minute D 6 liters per minuut / 6 litres per minute</p>	19	<p>Verf word verkoop in 5 liter blikke. Sean benodig 45 liter verf. Hoeveel blikke het hy nodig? Paint comes in 5 liter cans. Sean needs 37 liters of paint. How many cans must he buy? A 5 B 6 C 7 D 8</p>
10	<p>Slegs een van hierdie berekeninge is korrek. Watter een? Only one of these calculations is correct. Which one? A $54 \times 65 = 3512$ B $78 \times 19 = 1486$ C $33 \times 58 = 1914$</p>	20	<p>Daar is 4800 appelbome op die plaas. As daar 60 rye is, hoeveel bome is in 'n ry? There are 4800 apple trees on the farm. If there are 60 rows, how many apple trees in a row? A 90 B 80</p>

D $69 \times 10 = 695$ E $82 \times 15 = 1235$	C 120 D 300
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MEMORANDUM

A				B					
No	Answer	No	Answer	No	Answer	No	Answer	No	Answer
1	287	11	120	1	$5 \times 4 \times 3 = 60$	7	$\begin{array}{r} R8877 \\ \times 44 \\ \hline R390\ 588 \end{array}$	16	$1404 \div 26 = 54$ lede / members
2	36000	12	12	2	$3 : 4 : 5$	8	$\begin{array}{l} 1 : 2 : 3 \\ (1 \times 6) : (2 \times 6) : (3 \times 6) \\ = 6 : 12 : 18 \end{array}$	17	$1470 \div 35 = 42$ spelers / players
3	36000	13	3	3	$\begin{array}{l} 200g + (800g \times 7) \\ 200g \\ + 5\ 600g \\ \hline = 5,8\ 00\text{kilogram} \end{array}$	9	$\begin{array}{r} 1273 \\ \times 167 \\ \hline 212\ 591\text{passasiers/passengers} \end{array}$	18	$R9\ 200 \div R88 = 104\ r\ 48$ $= 104$ boeke / books
4	$2 \times 5 = 10$ en/and $10 \times 17 = 170$	14	113	4	$4 \times 10 \times 15 = 600$ krale / beads	10	$\begin{array}{r} 1225\text{kg} \\ \times 24 \\ \hline 29,400\ \text{kilogram} \end{array}$	19	$3\ 060 \div 3 = 1020$
5	2220	15	125	5 a	$\begin{array}{r} 4286 \\ \times 46 \\ \hline R197\ 156 \end{array}$	11	$2784 \div 24\ \text{h} = 166$ rekenaars/ computers	20	$7\ 814 \div 42 = 186\ r\ 2$
6	a) 8:9 b) 8:11	16	42	b	$\begin{array}{r} 5836 \\ \times 74 \\ \hline R431\ 864 \end{array}$	12	$R1875 \div R28 = 66\ r\ 27 = 67$ karre/cars		
7	12	17	R9	c	$\begin{array}{r} 9557 \\ \times 89 \\ \hline R850\ 573 \end{array}$	13	a) $2496\text{km} : 4\ \text{Ure/Hrs}$ $624\text{km} : 1\ \text{Uur/Hour}$ b) $321\text{km} : \frac{1}{2}\ \text{uur /hour}$		

8	4	18	11 : 25	d	R197 156 + R431 864 + R850 573 <hr/> = R1 497 593	14	$3\,302 \div 26 = 127$ vragte / loads		
9	9 008 641	19	36	6a	1 051 x 45 = R47 295	15	$4\,752 \div 36 = 132$ munte / coins		
10	24	20	There were 42 members	b	1 051 x 93 = R97 7423				

C			
1	C	11	C
2	B	12	B
3	C	13	A
4	D	14	C
5	D	15	C
6	C	16	C
7	C	17	B
8	D	18	C
9	D	19	C
10	C	20	B