



"supporting schooling for excellence"

NAME: **MEMO**

GRADE: **6**



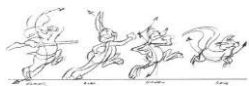
TERM: _____
"supporting schooling for excellence"

TEACHER: _____

SCHOOL: _____

WHOLE NUMBERS

QUICK MATHS



Add:

- $468 + 129 = 597$
- $4\,523 + 1\,589 = 6\,112$
- $8\,432 + 7\,930 = 16\,362$
- $5\,649 + 3\,646 = 9\,295$
- $12\,984 + 8\,479 = 21\,463$

QUESTION 1

1.1 Complete the patterns

a)

a	1	2	3	4	5
b	24	48	i. 72	ii. 96	iii. 120

b)

a	1	2	3	4	5
b	56	60	i. 64	ii. 68	iii. 72

c)

a	1	2	3	4	5
b	4 390	4 500	i. 4 610	ii. 4 720	iii. 4 830

1.2 Complete the number sentences and do the calculations.

Add:

a) 12 weeks 6 days and 15 weeks 8 days

$$6 + 8 = 14 \text{ days}$$

$$14 \text{ days} = 2 \text{ weeks}$$

$$12 + 15 + 2 \text{ weeks} = 29 \text{ weeks}$$

$$29 \text{ weeks}$$

b) 3 years 17 months and 5 years 19 months

$$17 + 19 \text{ months} = 36 \text{ months}$$

$$36 \text{ months} = 3 \text{ years}$$

$$3 + 5 + 3 = 11 \text{ years}$$

$$11 \text{ years}$$

c) 21 centuries 12 decades and 13 centuries 16 decades

$$12 + 16 \text{ decades} = 28 \text{ decades}$$

$$28 \text{ decades} = 2 \text{ centuries} + 8 \text{ decades}$$

$$21 + 13 + 2 \text{ centuries} = 36 \text{ centuries}$$

$$36 \text{ centuries} 8 \text{ decades}$$

1.3 Add the following by using the method that you learned in class.

a) $123\,587 + 58\,103$

$$181\,690$$

b) $761\,121 + 85\,928$

$$847\,049$$

c) $792\,258 + 489\,129$

$$1\,281\,387$$

1.4 Use the rule to complete the table.

a) $y = x + 12\,680$

x	15 830	15 970	16 100	16 530	16 700
y	28 510	28 650	28 780	29 210	29 380

b) $y = x + 2\,899$

x	129	130	136	139	142
y	3 028	3 029	3 035	3 038	3 041

1.5 Complete the number sentences and show the calculations.

a) In 1980 there were 36 869 students at the University of Pretoria. In 1981 there were 78 6300 and in 1982 there were 102 546. How many students were there all together from 1980 to 1982?

$$\text{There were } 36\,869 + 786\,300 + 102\,546 = 925\,715 \text{ students from 1980 to 1982}$$

b) There is 15 000 people in Clan William, 75 638 in Dullstroom and 103 580 people in Graaff Reinet. These are small towns in South Africa. How many people are there altogether in these 3 towns?

$$\text{There are } 15\,000 + 75\,638 + 103\,580 = 194\,218 \text{ people altogether in the 3 towns}$$

QUICK MATHS



Subtract:

- $6\,780 - 4\,990 = 1\,790$
- $17\,639 - 9\,999 = 7\,640$
- $8\,950 - 6\,089 = 2\,861$
- $20\,000 - 18\,970 = 1\,030$

QUESTION 2

2.1 Complete the patterns.

a)

a	1	2	3	4	5
b	7 950	7 860	I. 7 770	II. 7 680	III. 7 590

b)

a	1	2	3	4	5
b	9 500	9 260	I. 9 020	II. 8 780	III. 8 540

c)

a	1	2	3	4	5
b	10 500	9 600	I. 8 700	II. 7 800	III. 6 900

2.2 Subtract:

a) 17 weeks 5 days and 12 weeks 9 days

$$17 - 12 \text{ weeks} = 5 \text{ weeks}$$

$$5 \text{ weeks} - 1 \text{ week} = 4 \text{ weeks}$$

$$5 \text{ days} + 7 \text{ days} - 9 \text{ days} = 3 \text{ days}$$

$$4 \text{ weeks } 3 \text{ days}$$

b) 8 months 6 weeks and 5 months 9 weeks

$$8 - 5 \text{ months} = 3 \text{ months}$$

$$3 \text{ months} - 4 \text{ weeks} = 2 \text{ months}$$

$$6 \text{ weeks} + 4 \text{ weeks} - 9 \text{ weeks} = 1 \text{ week}$$

$$2 \text{ months } 1 \text{ week}$$

c) 5 centuries 9 decades and 2 centuries 52 decades

$$5 + 2 \text{ centuries} = 7 \text{ centuries}$$

$$7 \text{ centuries} = 70 \text{ decades}$$

$$9 + 70 \text{ decades} - 52 \text{ decades} = 27 \text{ decades}$$

$$2 \text{ centuries } 7 \text{ decades}$$

2.3 Subtract the following by using the method that you learned in class.

a) $98\,600 - 86\,799$

$$11\,801$$

b) $190\,783 - 98\,800$

$$91\,983$$

2.4 Use the rule to complete the tables.

a) $y = x - 4600$

x	120 899	188 977	175 766	163 520	153 999
y	116 299	184 377	171 166	158 920	149 399

b) $y = x - 9.575$

x	13.676	14 589	15 693	16 679	17 899
y	4.101	14 579.425	15 683.425	16 669.425	17 889.425

2.5 Complete the number sentences and show the calculations.

- a) There are 45 600 cars in a factory. Toyota fetched 14 890 cars and Kia fetched 20 845 cars. How many cars are left at the factory?

There are $45\,600 - 14\,890 - 20\,845 = 9\,865$ cars left at the factory

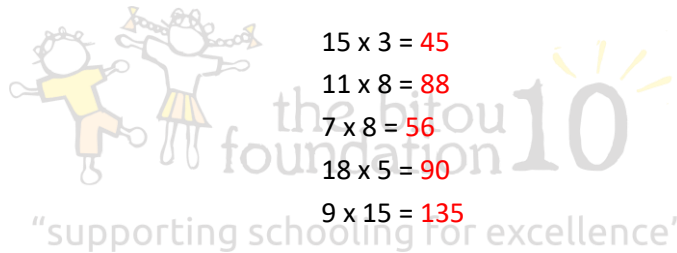
- b) An aeroplane flies 11 309,25 km from Cape Town to New Zealand. The aeroplane refuels in Australia after travelling 10 770,24 km. How many kilometers are left to reach the destination?

There are $11\,309,25\text{km} - 10\,770,24\text{km} = 539,01\text{km}$ left to reach their destination

QUICK MATHS



- $12 \times 5 = 60$
- $9 \times 9 = 81$
- $13 \times 6 = 78$
- $12 \times 10 = 120$
- $25 \times 4 = 100$



$15 \times 3 = 45$

$11 \times 8 = 88$

$7 \times 8 = 56$

$18 \times 5 = 90$

$9 \times 15 = 135$

QUESTION 3

3.1 Complete the patterns.

a)

a	1	2	3	4	5
b	1 200	2 400	3 600	4 800	6 000

b)

a	1	2	3	4	5
b	800	1 600	2 400	3 200	4 000

c)

a	1	2	3	4	5
b	16	32	48	64	80

3.2 Multiply the following by using the method that you learned in class.

- a) 352×75

26 400

b) 921×123

$113\ 283$

c) 564×676

$381\ 264$

3.3 Use the rule to complete the tables.

a) $y = 42 \times X + 12$

x	100	125	350	520	640
y	4 212	5 262	14 712	21 852	26 892

b) $y = 32 \times X - 169$

x	100	125	350	520	640
y	3 031	3 831	11 031	16 471	20 311

3.4 Complete the number sentences and show the calculations.

- a) A farmer plants lemon trees in his orchard. He plants 38 rows with 75 trees in each row. How many trees will there be altogether?

There will be $38 \times 75 = 2\ 850$ trees

- b) He calculates that in 7 years each tree will produce lemons worth R123 per tree. What will his total income be?

His income after 7 years will be $R123 \times 2\ 850 = R350\ 550$

QUICK MATHS



- $297 \div 9 = 33$
 - $294 \div 6 = 49$
 - $98 \div 7 = 14$
 - $361 \div 19 = 19$
 - $390 \div 5 = 78$
 - $306 \div 9 = 34$
 - $437 \div 19 = 23$
- $105 \div 7 = 15$
 - $104 \div 8 = 13$
 - $138 \div 3 = 46$
 - $136 \div 8 = 17$
 - $184 \div 8 = 23$
 - $450 \div 6 = 75$
 - $495 \div 11 = 45$

QUESTION 4

4.1 Complete the following by dividing.

a)

a	1	2	3	4	5
b	5 400	2 700	1 800	1 350	1 080

b)

a	1	2	3	4	5
b	1 920	960	640	480	384

c)

a	1	2	3	4	5
b	4 320	2 160	1 440	1 080	864

4.2 Divide the following by using the method learned in class.

a) $1\,372 \div 28$

49

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b) $1\,518 \div 33$

46

CLUE BOARD

c) $1\,854 \div 18$

103

CLUE BOARD



4.3 Complete the patterns by using the rule.

a) $y = \frac{x}{6} + 50$

x	150	288	492	540	612
y	75	98	132	140	152

b) $y = \frac{x}{9} - 36$

x	287	468	558	630	765
y	NOT POSSIBLE	16	26	34	49

4.4 Calculate the following by writing down a number sentence. Show all your calculations.

- a) The Grade 6 class collected 4 428 glass bottles for a project. If the bottles are placed in crates of 12 bottles, how many crates will they fill?

There will be $4428 \div 12 = 369$ crates

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b) If they collected R17 335, and wish to donate the money to 5 charities that need their help, how much will each charity receive?

Each charity will get $R17\ 335 \div 5 = R3\ 467$

CLUE BOARD

QUICK MATHS



- $126 + 58 = 184$
- $123 \times 6 = 738$
- $520 - 399 = 121$
- $96 \times 20 = 1\ 920$
- $38 \times 27 = 1\ 026$
- $9\ 998 - 4\ 999 = 4\ 999$
- $390 - 56 = 334$
- $282 \div 6 = 47$
- $36 \times 15 = 540$
- $208 \div 4 = 52$
- $1\ 380 \div 60 = 23$
- $99 \times 11 = 1\ 089$

QUESTION 5

5.1 Complete each of the following by using the rule.

a) $y = X + 907$

x	360	540	790	912	1 178
y	1 267	1 447	1 697	1 819	2 085

b) $y = X - 79$

x	760	532	327	183	93
y	681	453	248	104	14

c) $y = 95 \times X + 139$

x	100	130	180	210	240
y	9 639	12 489	17 239	20 089	22 939

d) $y = \frac{x}{12} - 3$

x	108	144	180	204	252
y	6	9	12	14	18

5.2 Use the symbols $<$ or $>$ or $=$ to complete the following.

- $405 \div 9 > 336 \div 8$
- $15 \times 19 = 57 \times 5$
- $32 \times 4 = 658 - 530$
- $448 \div 8 < 355 + 90$
- $820 \div 20 = 123 \div 3$

5.3. Calculate and colour in your answer on your BINGO card to see the pattern.

B I N G O

14	29	38	52	74
4	18	33	46	62
7	16	★	60	71
9	27	44	51	67
12	23	35	47	73

- $210 \div 15 = 14$
- $1\ 756 - 1\ 682 = 74$
- $768 \div 64 = 12$
- $730 \div 10 = 73$
- $19 \times 2 = 38$
- $3 \times 3 \times 3 = 27$
- $64 \div 4 = 16$
- $954 - 925 = 29$
- $364 \div 7 = 52$
- $9 + 9 = 18$
- Double 23 46
- Halve 120 60
- $315 \div 9 = 35$
- $39 + 12 = 51$
- $110 \times 2 \div 5 = 44$
- $115 \times 3 \div 15 = 23$
- $282 \div 3 \div 2 = 47$
- $1\ 188 \div 4 \div 9 = 33$

QUESTION 6

First write down a number sentence and then calculate the following.

6.1 Halve 12 886

$$12\ 886 \div 2 = 6\ 443$$

6.2 Double 5 963

$$5\ 963 \times 2 = 11\ 926$$

6.3 Add the following numbers: 18 257; 13 966 and 963

$$18\ 257 + 13\ 966 + 963 = 33\ 186$$

6.4 Subtract the numbers: 781 235 and 693 246

$$781\ 235 - 693\ 246 = 87\ 989$$

6.5 Divide 5 688 by 36

$$5\ 688 \div 36 = 158$$

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6.6 Subtract the sum of 12 350 and 2 493 from 21 963

$$12\,350 + 2\,493 = 14\,843$$

$$21\,963 - 14\,843 = 7\,120$$

6.7 Divide the product of 42 and 32 by 8

$$42 \times 32 = 1\,344$$

$$1\,344 \div 8 = 168$$

CLUE BOARD

6.8 Add 54 588 to the product of 135 and 45

$$135 \times 45 = 6\,075$$

$$54\,588 + 6\,075 = 60\,663$$

6.9 Subtract 12 955 from the product of 156 and 263

$$156 \times 263 = 41\,028$$

$$41\,028 - 12\,955 = 28\,073$$

6.10 Subtract the sum of 23 536 and 21 231 from the sum of 125 631 and 9 899

$$23\,536 + 21\,231 = 44\,794$$

$$125\,631 + 9\,899 = 135\,530$$

$$135\,530 - 44\,794 = 90\,736$$

6.11 Multiply the quotient of 2 136 and 8 by 24

$$2\,136 \div 8 = 267$$

$$267 \times 24 = 6\,408$$

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6.12 Add the product of 56 and 63 to the quotient of $1\,794 \div 69$

$$56 \times 63 = 3\,528$$

$$1\,794 \div 69 = 26$$

$$3\,528 + 26 = 3\,554$$

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