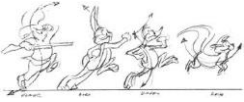


Whole numbers

Quick maths



Use the symbols: $<$, $=$ and $>$ to complete the questions

- $89546 > 89465$
- $2713 < 7213$
- $250 = 245$ (rounded off to the nearest 10)

QUESTION 1

1.1 Arrange the numbers from big to small

- a. 98741; 98714; 98874; 98817; 98178; **98874, 98817, 98741, 98714, 98178**
 b. 45678; 46785; 48567; 47865; 45876 **48567, 47865, 46785, 45876, 45678**

1.2 Arrange the numbers in ascending order

- a. 913465; 912654; 916512; 915462; **912654, 913465, 915462, 916512**
 b. 3303; 3030; 3330; 3003; 3033; **3003, 3030, 3033, 3303, 3330**

QUESTION 2

2.1 Give the place value of the underlined digit and write the answer in words

NUMBER	PLACE VALUE	IN WORDS
9876 <u>5</u> 21	100 H	HUNDRED
5217 <u>0</u> 56	1000 T	THOUSAND
97210 <u>8</u> 3	100000 HT	HUNDRED THOUSAND
123489 <u>7</u>	1 U	UNIT

2.2 Complete the table by writing down the numeric value of the underlined digit and write the answer in words.

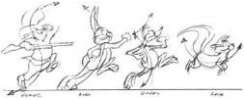
NUMBER	NUMERIC VALUE	IN WORDS
453 <u>8</u> 912	8000	EIGHT THOUSAND
912 <u>4</u> 9188	200000	TWO HUNDRED THOUSAND
54123791 <u>6</u>	40000000	FOURTY MILJON
TOTAAL	40208000	FOURTY MILJON TWO HUNDRED AND EIGHT THOUSAND

QUESTION 3

Complete the table by rounding off the number to:

NUMBER	NEAREST 5	NEAREST 10	NEAREST100	NEAREST 1000
428639	428640	428640	428600	429000
2178942	2178940	2178940	2178900	2179000
7899424	7899425	7899420	7899400	7899000

QUICK MATHS



- What is a prime number? A prime number has got 2 factors namely 1 and itself
- How many factors does a prime number have? 2
- Write down the first 5 prime numbers 2, 3, 5, 7, and 11
- Which prime number is an even number? 2

QUESTION 1

Use the numbers in A to answer the questions. Only the numbers in A may be used.

$A \in \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30\}$

1. Add the prime numbers $2 + 3 + 5 + 7 + 11 + 13 + 17 + 19 + 23 + 29 = 129$
2. Write down the even numbers 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30
3. Write the multiples of 5 5, 10, 15, 20, 25, 30.
4. Write the factors of 30 1, 2, 3, 5, 6, 10, 15, 30
5. Write the factors of 20 1, 2, 3, 5, 6, 10, 15, 30
6. Are there any factors in 20 and 30 that are the same? Yes
7. Write down these factors, if there are any 2, 5, 10
8. Write the numbers down that's divisible by 10 10, 20, 30
9. Give the prime factors of 30 2, 3, 5.
10. Calculate the following
 - a. $27 - 15 = 12$
 - b. $30 - 12 = 18$
 - c. $8 + 19 = 27$
 - d. $16 + 9 = 25$

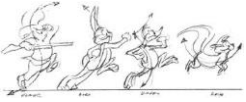
QUESTION 2

Use your calculator to get the answers and write the answers in words

1. $963157 + 781293 + 793164 = 1837614$
In words: One million eight hundred and thirty-seven thousand six hundred and fourteen
2. $555543 + 8992441 - 496661 = 14051323$
In words: Fourteen million and fifty-one thousand three hundred and twenty-three
3. $1289469 - 38462 - 19734 = 1231273$
In words: One million two hundred and thirty-one thousand two hundred and seventy-three

WHOLE NUMBERS: ADDING AND SUBTRACTING

QUICK MATHS



Write the answer

- $(7 + 9) \times 2 + 5 = 37$
- $15 - (6 + 4) + 8 = 13$
- $3 \times 6 + 5 \times 8 = 58$
- $9 \div 3 + 15 \div 3 = 8$

QUESTION 1

Use the vertical column method for adding and subtracting to do the word sums.

1.1 A family going on holiday plans to drive 2469km. The first day they do 946km the second day 738km. The third day they rest. How many kilometres do they have to travel to complete the journey?

$\begin{array}{r} 946 \\ + 738 \\ \hline 1684 \end{array}$		$\begin{array}{r} 2469 \\ - 1684 \\ \hline 785 \end{array}$ <p style="color: red; margin-top: 5px;">They drove 785km the last day</p>
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1.2 To fly from South – Africa to America is 14396km. If the aeroplane takes in petrol in Egypt, which is 6405km into the flight, how far is it still to America?

$\begin{array}{r} 14396 \\ - 6405 \\ \hline 7991 \end{array}$ <p style="color: red; margin-top: 5px;">The distance to America is still 7991km</p>

1.3 A farmer sells some of his cattle. The money he received is R1589, R2745, and R3216. How much money did he get in total for his cattle?

$\begin{array}{r} 1589 \\ + 2745 \\ + 3216 \\ \hline 7550 \end{array}$ <p style="color: red; margin-top: 5px;">The farmer made R7550 by</p> <p style="color: red; margin-top: 5px;">Selling his cattle</p>
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1.4 If the farmer in question 1.3's expenses are R359, R1823 and R2978, how much profit did he make by selling the cattle after he had deducted the expenses?

2	9	7	8
1	8	2	3
+	3	5	9
5 1 6 0			
His expenses were R5160			
	7	5	5
-	5	1	6
	2	3	9
2 3 9 0			
Profit = Income – expenses. His profit was R2390			

1.5 A builder wants to build a rectangular wall. The length of the wall is 39m and the width is 26m. What is the perimeter of the wall?

$$\text{Perimeter} = 2 \times \text{length} + 2 \times \text{width}$$

$$= 2 \times 39 + 2 \times 26$$

$$= 130\text{m}$$

1.6 Double 7639

$$7639 \times 2 =$$

	7	6	3	9
x				2
1	5	2	7	8

1.7

a. Half of 9346

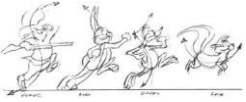
$$9346 \div 2 = \quad \quad \quad 4673$$

$$2\sqrt{9346}$$

b. Is the halved number an even or an odd number? **Odd number.**

WHOLE NUMBERS: MULTIPLYING AND DIVIDING

QUICK MATHS



$$\diamond 15 \times 3 = 45$$

$$\diamond 26 \times 2 = 52$$

$$\diamond 69 \div 3 = 13$$

$$\diamond 108 \div 3 = 36$$

QUESTION 1

1.1 Calculate the product of 306 and 39 (Use the vertical column method)

$306 \times 39 =$					
		3	0	6	
	x		3	9	
	2	7	5	4	
	9	1	8	0	
1	1	9	3	4	

1.2

a. A builder wants to build a square garage. He needs 4864 bricks in total to build it. How many bricks will one wall take to be build?

$4864 \div 4 =$	
	1216
	$4\overline{)4864}$

b. If every wall cost R2350, what will the garage cost in total?

$R2350 \times 4 =$					
	2	3	5	0	
	x			4	
	9	4	0	0	
$\text{All 4 walls will cost R9400}$					

c. Each wall cost him R985 for one coat of paint. If he wants to paint the walls with two coats of paint, how much will the painting of all the walls cost?

985 X 2 =

	9	8	5
X			2
1	9	7	0

5 Coats of paint will cost R1970

1	9	7	0
x			4
7	8	8	0

The 4 walls with 2 coats of paint will cost R7880

1.3 Devide R1909 between 23 people, how much will each get?

1909 ÷ 23

	83	
23	<u>√1909</u>	
1909	- 1150	= 759
		50
759	- 690	= 69
		30
69	- 69	= 0
		3
		83

Help board	
23 X 10 = 230	23 X 3 = 69
23 X 15 = 345	23 X 50 = 1150
23 X 20 = 460	23 X 30 = 690

1.4

a. Calculate 9342 x 246

		9	3	4	2
	X		2	4	6
		5	6	0	5
	3	7	3	6	8
1	8	6	8	4	0
2	2	9	8	1	3

b. Calculate $8664 \div 57$

$$8664 \div 57 = 152$$

$$8664 - 5700 = 2964 \quad 100$$

$$2964 - 2280 = 684 \quad 40$$

$$684 - 570 = 114 \quad 10$$

$$114 - 114 = 0 \quad 2$$

$$152$$

Help board
$57 \times 100 = 5700$
$57 \times 40 = 2280$
$57 \times 10 = 570$
$57 \times 2 = 114$

1.5 Calculate how many learners there are in the Grade 6 group if the ratio of boys to girls is 4 : 6 and there are 84 boys in the grade.

$$4 : 6$$

$$\times 21 : \times 21$$

$$84 : 126 \quad \text{The total learners is } 84 + 126 = 210$$

1.6 Simplify the ratio 15 : 35 : 75

$$15 : 35 : 75$$

$$\div 5$$

$$3 : 7 : 15$$

QUESTION 2

A mom likes to save money. Work out the best prices to help her. Here are the prices of the items that she needs.

MILK : R28 / litre, R8 / 250ml or R12 / 500ml

R28 / L	R32 / L	R24 / L
R12 is her best buy		

SUGAR : R34 / kilogram R18 / 500g or R10 / 250g

R34 / kg	R36 / kg	R40 / kg
R34 is her best buy		

BUTTER : R75 / 500g R162 / kilogram or R36 / 250g

R150 / kg R162 / kg R144 / kg
 R36 is her best buy

FLOUR : R34 / kilogram R11 / 250g or R15 / 500g

R34 / kg R44 / kg R30 / kg
 R15 is her best buy

a. What is the total cost of the items that she bought?

$R12 + R34 + R36 + R15 = R97$
 Her total cost of the items she bought was R97

b. If she pays with a R100, R50, 2 X R20 and a R10, how much change will she get?

$R100 + R50 + R40 + R10 = R200$
 $R200 - R97 = R103$
 She got R103 change