**Memorandum**

**Counting forward and backwards in whole numbers:**

1. 5000
2. 4201
3. A = 21750 B = 22250
4. 35 698, 36 589, 38 569, 39 958
5. 456 789; 456879; 465 789; 465 879
6. B

**Recognise and represent whole numbers to at least 6 digits:**

1. 42 765
2. 623 902
3. a. forty two thousand seven hundred and forty nine

b. three hundred and forty eight thousand and seven hundred and six

1. 348 736
2. 976 521 125679

**Place Value to at least 6-digits numbers:**

1. 60 000 or 6Tth
2. 2.1 3U
   1. 3HTh
3. 4H
4. D

**Rounding of numbers to the nearest 5, 10, 100 or 1000**

1. a. 5 700 b. 5 685
2. a. 1 300 b. 2 345
3. a. 125 b. 130
4. a. 70 b. 3 000

**Addition and Subtraction of whole numbers to at least 5-digits:**

1. 836
2. 36 889
3. 3 782
4. 47 707
5. 3 316
6. 2 047
7. 5 928
8. 26 000
9. 234
10. 331
11. 91 202
12. 5 820
13. 961
14. a. 2 668 b. 1 256
15. 2 091
16. 1 791

**Multiplication of 3-digit by 2-digit numbers:**

1. 8 544
2. 11 112
3. 2(5+3) = (2x **5**) + (2 x **3**)

= **10** + **6**

= 16

1. 562 x 5

= (500 +**60**+ 2) x 5

= (500 x **5**) + (60 x **5**) + (**5** x 2)

= **2500 + 300 +10**

= **2810**

1. 373 x 26

= 373 x (20 +6)

= (373 x 20) + (373 x6)

= 7460 + 2238

= 9 698

1. 237 x 42

= 237 x (7 x 6)

= (237 x 7) x 2 x 3

= 1659 x 2 x 3

= 3318 x 3

= 9 954

1. a. 3000 b. 10400 c. 5 d. 30194
2. Carla’s

**Division of 3-digit by 2-digit numbers:**

1. 35
2. 176
3. 728 ÷ 28

= 728 ÷ 7 ÷ 4

= 104 ÷ 4

= 26

1. 17
2. 35
3. 23
4. 32
5. R315

**Multiples and Factors of 2-digit whole numbers:**

1. 474, 477, 480, 483
2. 720, 725, 730
3. 72; 54
4. 8; 16; 24
5. 1; 2; 3; 4; 6; 8 12; 24
6. 1, 7

**Properties of 0 and 1**

1. a. 23 b. 23 c. 0 d. 1298
2. a. It remains the same

b. it becomes zero

c. it remains the same

1. a. 1 b. 0
2. a. it remains the same

b. it will always be zero

**Properties of numbers:**

1. a. False

b. True

c. True

d. False

e. True

1. a. 9

b. 1

c. 6

d. 8 x **5** = 5 x **8**

1. a**.** 4

b. 5

c. 6 x 4

1. Yes
2. 51
3. No

***RATE AND RATIO***

1. d
2. a. 4:3 b. 2:3
3. a. 7:5 b. 5:10 = 1:2 c. 17:5 d. 3:5
4. 160
5. 2:4 or 1:2
6. R100
7. R8
8. 40
9. 15
10. a. 75km b. 375km
11. R630
12. R900 R1350

**Solve problems involving money:**

1. a. R19 850 b. R5751 c. R14 099
2. R41 825
3. Player C

**COMMON FRACTIONS**

1. **Counting forward and backward in common fractions**
   1. a. b.
   2. a. b.
2. a. b.
3. **Representing fractions**
4. 3.1 A B C
   1. A B C
5. **Equivalent fractions**

It is equal

1. ‘
2. ;
3. 15
4. 12
5. **Comparing fractions**
7. i ˂

ii =

1. i ˂ ii ˃
2. **Addition and Subtraction of common fractions**
3. **i** ii 2 iii iv 4

6. **Fraction of the whole**

7.1 i 12 ii 5

7.2 150

1. **Problem solving questions on fractions**
   1. 60
   2. a.
   3. 420

**CONTENT AREA: PATTERNS, FUNCTIONS & ALGEBRA**

**Numeric and geometric patterns**

1. C
2. C
   1. 56 143 ; 56 138
3. 26 235 ; 26 245
4. a. 100; 125 b. 2006; 2010 c. 84; 79
5. a. 54 ; 57 b. 48 ; 53
6. a.

b.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Pattern | 1 | 2 | 3 | 4 | 5 | 8 |
| Number of dots | 1 | 3 | 6 | 10 | 15 | 36 |

1. 8 red and 9 white

**Describe relationships or rules:**

1. a. add 5 to each term
2. a. add 5 to each term b. subtract 7
3. 2*x* +1 *x* + 4
4. ÷ 6
5. a. 10 280 b. x 20

**Determine output values for a given input values using flow diagrams:**

1. 21

49

9

77

1. a. 45

60

75

1. 0

3

6

9

12

1. 31 6

49 18

9

**Write number sentences to describe a problem situation:**

1. 44 x 245 ÷ 12

2. a. Number of learners = 5 + 23 **or** *x* = 5 + 23

b. Number of sweets each = (36 – 4) ÷ 2 **or** *x* =(36 – 4) ÷ 2

c. Number of lipsticks = 20 x 5 **or** *x* = 20 x 5

d. Fourth number = 20 500 – (2 341 + 578 + 10 690)

3. Cost = R 160 x 2 x 29

= R 320 x 29

= R 9 280

320

x 29

2 880

6 400

9 280

**Solve or complete number sentences:**

1. C
2. C
3. B
4. a. 124
5. a. 240 b. 124 c. 10 d. 8

**CONTENT AREA: SPACE AND SHAPE**

**Recognize and name 2-D shapes and 3-D objects:**

**2-D shapes:**

1. 4
2. 10
3. i. A. Hexagon B. Pentagon C. Square D. Parallelogram E. Trapezium

ii Acute and Obtuse

iii. Sides: Opposite sides are equal

Angles: All angles are right angles

iv. Sides: Square has four sides and a triangle has three sides

Angles: Square only has right angles and triangle can have acute , obtuse or

right angles.



|  |  |  |
| --- | --- | --- |
| Name of shapes | Number of sides | Number of angles |
| Rhombus | 4 | 4 |
| Octagon | 8 | 8 |

1. a. 6 b. 2
2. 9
3. Pentagon and hexagon

**3-D objects:**

1. Cube rectangular prism
2. It’s a combination of four flat surfaces.
3. 3.1

|  |  |
| --- | --- |
| **DIFFERENCES between the two 3-D objects** | |
| CUBE | RECTANGULAR PRISM |
| (a) all sides are equal | (a) opposite sides are equal |
| (b) All square faces | (b) square and rectangle faces |

* 1. Only flat faces

|  |  |
| --- | --- |
| Name of figure | **Total number of edges** |
| Cube | 12 |
| Triangular prism | 9 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Number of faces | Number of edges | Number of vertices |
| Cube | 6 | 12 | 8 |
| Pyramid with triangular base | 5 | 6 | 4 |

1. Triangular prism

**Recognise, describe and performs transformations( Rotation, Reflection, Translation):**

\*

8

8

1. 3.1 🡺

3.2 ⯋ ⯊

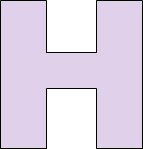
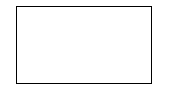
1. 20.1 turn
   1. Slide
   2. Flip
2. a. slide/ translate b. rotate/turn



1. Rotated Rotated Reflected

**Line of symmetry:**





1. 6



**Describe and sketches views of 3-D objects in different positions:**

1. 1.1 Right
   1. Left





**CONTENT AREA: MEASUREMENT**

**Length:**

1. 1.1 Trundle wheel
   1. Tape measure
   2. Ruler
2. a. 5 000cm

b. 3 000m

c. 5,5 cm

d. 9 900cm

1. 3.1 8 km 848 m
   1. 8 km 611m
   2. 237m
2. 434 km
3. A = 3 *cm*

B = 2,5 *cm*

1. C 4km
2. B
3. 200cm

**Capacity:**

1. 1l 750 *m*l
2. 5803 l
3. a. 2000 *m*l

b. 8

1. a. 2200 *m*l

b. 8

1. a. 500 *m*l

b. *m*l

c. 10

d.

**Mass:**

1.



1. a. 4000g

b.

c. 250g

d. 3 kg and 500g

e. 500g

f. 3 kg 500 g

1. a. 40 kg

b. 1 kg

c. 42kg

d. 39kg

**Time**

**Reads, tells and writes analogue, digital and 24-hour time:**

1. 14:00

2.

3. a. 6a.m.

b. 9:30 p.m.

c. 11:15 p.m.

1. a. 17:15

b. 19:45

c. 02:30

1. 7:10 p.m.
2. a. 7:35p.m.

b. 18:10

1. 75 min
2. 13 pages
3. 25 mins
4. 2 weeks 5 days 22 hrs

**Solve problems involving calculation and conversion between time units:**



|  |  |  |
| --- | --- | --- |
| years | Decades | Months |
| 50 | 5 | 60 |
| 25 | 2 and half | 30 |
| 75 | 7 and half | 90 |

1. 13 weeks 5 days 4 hrs 9mins
2. 3.1 360 years
   1. 36 decades

**Units of measurement:**

1. km

mm

kg

ml

**Measurement of Temperature:**

1. 20C
2. a. 90C

b. 15

c. 11

d. 13

**CONTENT AREA: DATA HANDLING**





1. 14 boys
2. Toyota: 11 VW: 11 Ford: 7
3. 26 girls



1. a. 7

b. yellow

c. red

1. a. Tuesday

b. Thursday

c. 90

d. 30

1. 15
2. a. 80

b. laundry and garden