Initiative for Curriculum Excellence

GM South Africa Foundation
Pioneering Models For Community Development

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Port Elizabeth District Office

Maths Baseline Assessment
Grade 3 – 7
English

Nelson Mandela Metropolitan University

February 2013

Maths Baseline Assessment: Grade 3 – 7

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Name :_____ Grade 3

Content Area: Numbers, Operations and Relationships

BASELINE ASSESSMENT

(Will assess Grade 2 work – Knowledge and skills)

_____
30

1. Count carefully when you fill in the missing numbers:

34		38		42			48

55		45			30	25	

(1)

2. Match the numbers to their number name:

Number	Number Name	Rewrite the number next to the correct number name
25	thirteen	
13	sixty-two	
44	twenty-five	
59	seventy - three	
62	forty-four	
73	fifty-nine	

(3)

3. Write the number.

a) One hundred and thirty-one : _____

b) One hundred and forty-seven: _____

(1)

4. Write the correct answer?

a) 1 more than 23 is _____

b) 1 less than 42 is _____

c) 10 more than 20 is_____ _____

d) 10 less than 40 is_____

(2)

5. Write the numbers in order from the biggest to the smallest.

(130, 133, 123, 143, 103, 113)

_____

(1)

6. Write these numbers in order. Start with the smallest number.

a) 90 ; 57 ; 66; 30; = _____

b) 83; 82; 7; 72; = _____

(1)

7. Break up this number. Look at this example → 148 = 100 + 40 + 8

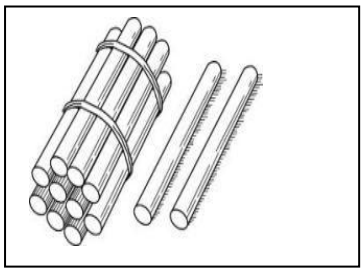
a) 52 =_____

b) 98 =_____

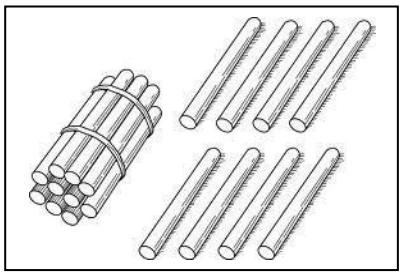
(2)

8. What number is made up of:

a)



b)



a) _____ b) _____ (1)

9. Adding by breaking up one number.

Look at this sum below:

23 + 36 = □

23 + (30 + 6) = □

23 + 30 → 53 + 6 = 59

Now try this method:
43 + 25 =

(1)

10. Subtracting by breaking up one number:

Look at this sum below:

75 – 54 = □

75 – (50 + 4) = □

75 – 50 → 27 - 4 = 23

Now try this method:
85 – 34 =

(1)

11. Filling the missing numbers

Before	Between	After
	43	

Before	Between	After
89		91

Before	Between	After
55	56	

(2)

12. Circle the even numbers

22 35 17 96 33 10 48 57

(1)

13. Add carefully:

14 + 7 = _____

34 + 9 = _____

76 + 10 = _____

90 + 12 = _____

(4)

14. Take away:

86 – 9 = _____

65 – 4 = _____

63 – 7 = _____

94 – 6 = _____

(4)

15. Fill in the correct sign: > = <

54 _____ 45

67 _____ 76

(23 +14) _____ (13 + 33)

Sixty – four _____ Forty – six

(2)

16. What number is made up of:

a. 1 ten and 6 units = _____

b. 2 tens and 0 units = _____

c. 2 tens and 3 units = _____

(3)

Name :_____ **Grade 3**

Content Area: Patterns, Functions and Algebra

BASELINE ASSESSMENT

(Will assess Grade 2 work – Knowledge and skills)

_____
10

1. What is the pattern used to fill in the missing number:

a) 27; 28; 29; ____; ____; 32.

The pattern is _____

b) 100 ; 95; 90; _____ ; _____ ; 75

The pattern is _____

c) 11; 22; 33; 44; ____ ; ____ ; 77.

The pattern is _____ (3)

2. Complete this number pattern:

   a) 2 + 3 =; 12 + 3 =; 22 + 3 =; _____ and _____

   b) 53 – 2 =; 43 – 2 =; 33- 2 =; _____ and _____

   c) 10 + 4 =; 20 + 4; 30 + 4 =; _____ and _____ (3)

3. Complete a table. For example: 2 hands = 10 fingers.

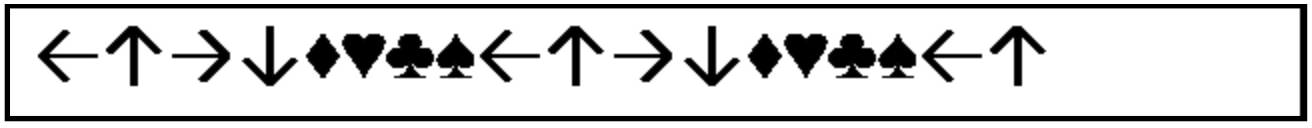
Hands 	2		6	7
Fingers 	10	20		35

(2)

4. What shape comes next?

(1)

5. Complete this pattern by drawing in the next two symbols:



(1)

Name :_____ **Grade 3**

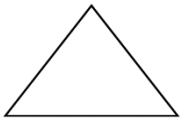
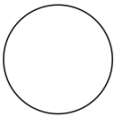
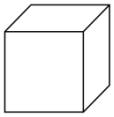
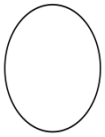
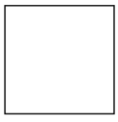
Content Area: Space and Shapes

BASELINE ASSESSMENT

(Will assess Grade 2 work – Knowledge and skills)

_____
15

1. Match the shape and the shape name. Draw the correct shape next the shapes name

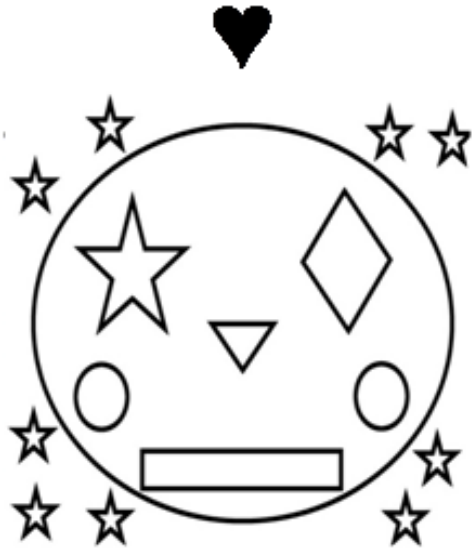
	square	Redraw the correct shape
	cube	
	oval	
	circle	
	triangle	

(5)

2. Which shape in the block above is a 3D shape? _____

(1)

3. Name all the different shapes in the picture below:



I can see

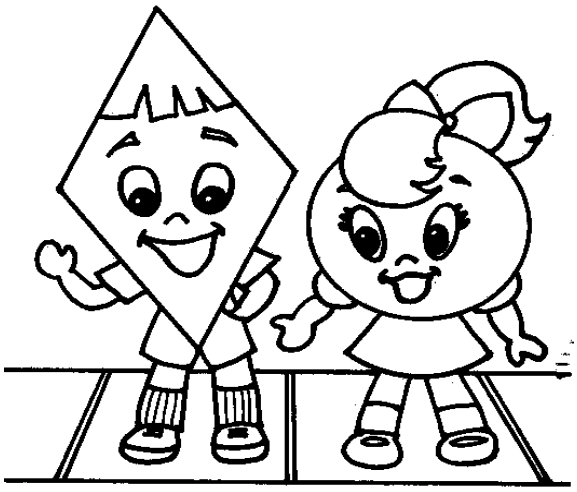
_____

_____

_____

(7)

4. Describe this shape:



a) The kite has _____ sides and _____ corners.

b) The circle has_____ sides and _____ corners. (2)

Name :_____ **Grade 3**

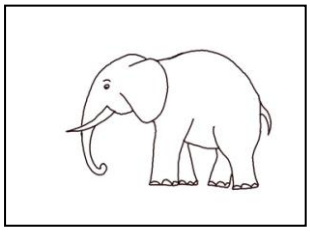
Content Area: Measurement

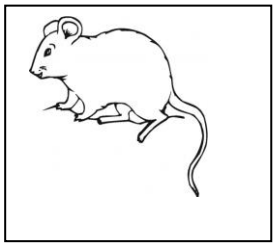
BASELINE ASSESSMENT

(Will assess Grade 2 work – Knowledge and skills)

_____
15

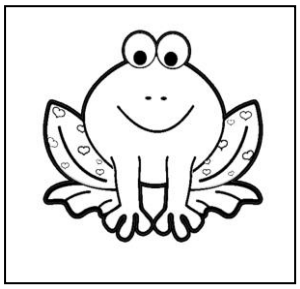
1. Draw a line through the animal that weights the most:

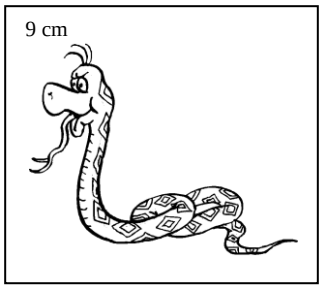




(1)

2. Draw a line through the animal that has the longest body:





(1)

3. Circle the bottle that most amount of juice and draw a cross through the bottle that has the least amount of juice.

(2)

4. How many days are there in a school week? (1)

5. Write down the names of the first 6 months of the year? (6)

6. What is the correct time on the clock?

It is _____

(1)

7. Fill in the corrects time on the clock face

a) 12 :30

b) 08: 00

(2)

8. What time do you start school? _____

(1)

Name :_____ **Grade 3**

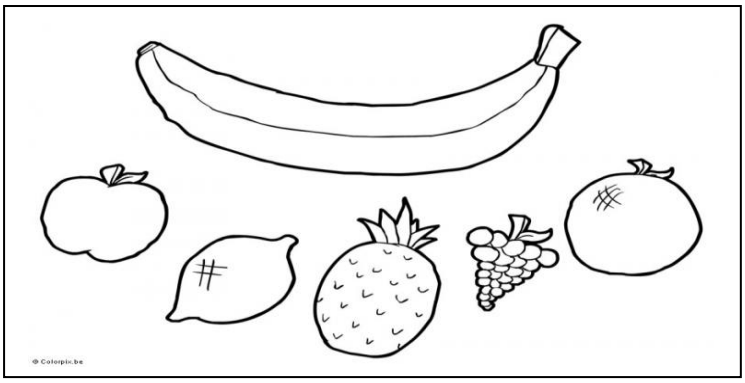
Content Area: Data Handling

BASELINE ASSESSMENT

(Will assess Grade 2 work – Knowledge and skills)

_____
10

1. These children like to eat different types of fruit, which is very healthy for them.



Who likes	apples	grapes	peaches	bananas	lemons	pineapples
Anna	✓	✓	x	✓	x	✓
Vuyo	✓	✓	✓	✓	x	✓
Ben	x	✓	✓	x	x	✓
Siya	✓	✓	✓	x	x	x
Tom	x	✓	x	x	x	x

a) Which fruit do all the children like to eat?_____(1)

b) Name the children who like bananas: _____ (2)

c) What fruit do Vuyo, Ben and Anna enjoy eating? _____(2)

d) Which child loves all the different types fruit except lemons? _____(1)

e) What fruit is the most unpopular fruit? _____(1)

f) Which child does not like eating fruit? _____(1)

g) Which type of fruit is your favourite and give a reason for your choice. (2)

_____

Grade 4: Baseline Tests

Name :_____ **Grade 4**

Content Area: Numbers, Operations and Relationships

BASELINE ASSESSMENT

(Will assess Grade 2 work – Knowledge and skills)

_____
30

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 60 minutes to answer all the questions.

1. Counting in 10s - fill in the missing number:

436	446			

(1)

2. Counting in 25s - fill in the missing number:

750	775			

(1)

3. Add these numbers.

546 + 567	390 + 237

(2)

4. Subtract these numbers

800 - 654	753 - 299

(2)

5. Round off each number to the nearest 10:

a. 36 = b. 83 =

c. 589 = d. 543 = (2)

6. Write the following numbers in words: Example 823 - eight hundred and twenty three

a) 745 _____

b) 935 _____

c) 819 _____

d) 671 _____

(4)

7. Fill in the numbers that comes just after:

a) 871 _____

b) 776 _____

c) 628 _____

d) 571 _____

(2)

8. Fill in the numbers that comes in between:

a) 600		602
b) 667		665
c) 139		141
d) 498		500

(2)

9. Ordering numbers: Write the numbers from the smallest to the biggest.

a) 389, 132, 592, 436 _____, _____, _____, _____

b) 292, 562, 192, 787 _____, _____, _____, _____

c) 312, 231, 331, 133 _____, _____, _____, _____

d) 467, 586, 344, 879 _____, _____, _____, _____

(4)

10. Expand these numbers: 436 = 400 + 30 + 6

a) 68 = _____ + _____

b) 241 = _____ + _____ + _____

c) 562 = _____ + _____ + _____

d) 666 = _____ + _____ + _____ (2)

11. What number is:

1. 10 less than 768 = _____
2. 5 more than 750 = _____
3. 100 more than 473 = _____
4. 300 less than 987 = _____ (2)

12. Money

a) 33c + 40c + 15c =

b) 83c – 34c =

c) 62c + 8c + 39c =

d) 68c – 23c = (2)

13. Write the following in Rands and cents:

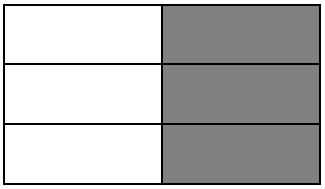
a. 1000c = R_____

b. 420c = R_____

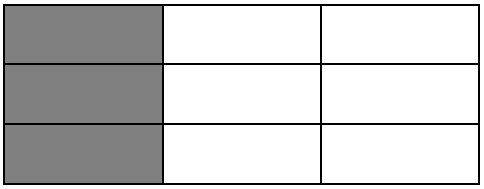
c. 120c= R_____

d. 637c = R_____ (2)

14. What fraction is coloured in:



a. =



b. =

Name :_____ **Grade 4**

Content Area: Patterns, Functions and Algebra

BASELINE ASSESSMENT

(Will assess Grade 3 work – Knowledge and skills)

_____
10

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 30 minutes to answer all the questions.

1. Complete this pattern, by filling in the next three answers:

   a. 30; 60; 90; _____

   b. 50; 100; 150; _____

   c. Monday; Wednesday; Friday; _____

   d. ab; cd; ab; ef; ab; _____

(2)

2. Fill the missing numbers:

Children	1	4	20	45
Number of legs	2			
Fingers on one hand	5			

(6)

3. Complete the following patterns:

Δ●□	ΔΔ●●□□	ΔΔΔ●●●□□□	
1 2 3 4 5	5 4 3 2 1	1 2 3 4	

(2)

Name :_____ **Grade 4**

Content Area: Space And Shapes

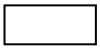
BASELINE ASSESSMENT

(Will assess Grade 3 work – Knowledge and skills)

_____
15

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 30 minutes to answer all the questions.

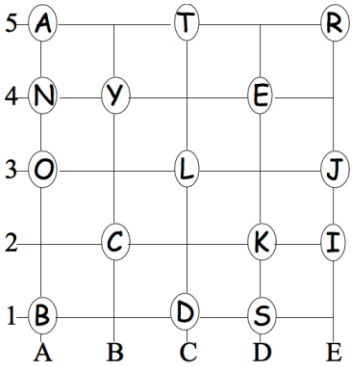
1. Match the correct name to the correct shape.

Shape	**Name**
1. 	cube
2. 	triangle
3. 	cylinder
4. 	oval
5. 	rectangle

(5)

2. What did Siya say to Ann when they went shopping?

In each blank, write the letter located at that point.
For example, the letter found at C1 is D.

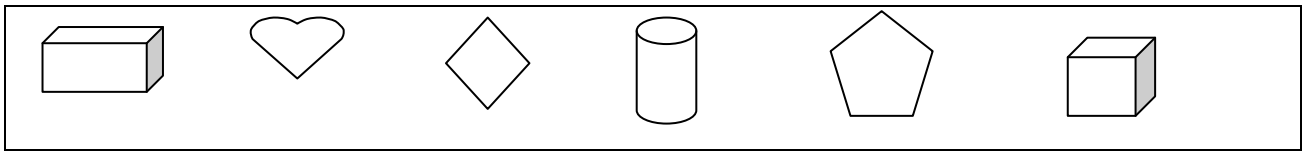


_____ _____ _____ _____ _____ _____ _____ _____!

A4 E2 B2 D4 A1 D4 C3 C5

(4)

3. Colour in the 2D shapes in blue and the 3D shapes in red.



(3)

4. Explain what is the difference between a square and a rectangle?

(2)

5. Draw a triangle in the space below (1)

Name :_____ **Grade 4**

Content Area: Measurement

BASELINE ASSESSMENT

(Will assess Grade 3 work – Knowledge and skills)

_____
15

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 30 minutes to answer all the questions.

1. Choose the best answer for the question.

The length of your hand is:

a. about 1 metre long
b. about half a long ruler
c. about half a short ruler

(1)

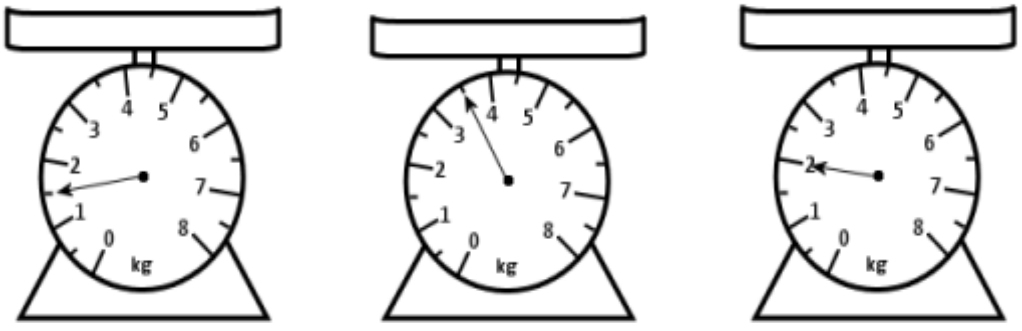
2. Choose the best answer for the question.

The length of your finger is:

a. about as long as a short ruler
b. about as long as a long ruler
c. about half of one of the 10 cm strips

(1)

3. Look at the scales. Write the weight.



a)	b)	c)

(3)

4. How much water is in each of these jugs?

a)	b)	c)

(3)

4. Fill in the correct time: **7.30**

(1)

5. Look at this month on a calendar and answer these questions.

February

S	M	T	W	T	F	S
	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					

(6)

a) What day of the week is the 18th?_____

b) How many Wednesday are there this month? _____

c) If yesterday's date was the 12^{th,} what day is it tomorrow?_____

d) What date was it a week ago, if today's date is the 25th ?_____

e) Is it a leap year?_____

f) What month comes after February? _____

Name :_____ **Grade 4**

Content Area: Data Handling

BASELINE ASSESSMENT

(Will assess Grade 3 work – Knowledge and skills)

_____
10

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 30 minutes to answer all the questions.

1. Collect, sort and organise data:
   Below is a list of all the children in a class. Write down all the names, which have five letters.

Alex	Bill	Tulisa	Debbie	Vuyo
Fazin	Henry	Iris	Jenny	
Lee	Mike	Neeta		

_____

_____

_____

(2)

2. Sort out the names and write the names in the table below:

3 letter names	4 letter names	6 letter names

(4)

3. Jack asked his friends what their favourite sandwich fillings were. He drew a graph of the results.

Vuyo	■				
Ben	■	■			
Sihle	■	■		■	
Ann	■	■	■	■	■
Tulisa	■	■	■	■	■
	jam	egg	tuna	cheese	ham

a) Which filling was the most popular?

_____

b) How many friends did Jack ask?

_____

c) Which two fillings got the same number of votes?

_____

d) How many more children chose egg than cheese?

_____ (4)

Grade 5: Baseline Tests

Name :_____ **Grade 5**

Content Area: Numbers, Operations and Relationships

BASELINE ASSESSMENT

(Will assess Grade 4 knowledge and skills)

_____
30

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 60 minutes to answer all the questions.

1. Mental Maths

a) 7 x 7 =

b) 938 + 14 =

c) 101 - 12 =

d) 56 + 44 =

e) 128 ÷ 4 =

f) Double 426 =

g) Half of 350 =

h) 125 x 4=

i) 319 + 11 - 15 =

j) 15 + 56 =

(5)

2. Complete counting in:

a) In multiples of **7** from 49 to 91:

_____

b) In multiples of **9** from 18 to 99:

_____

c) In multiples of **8** from 56 to 96 :

_____

(3)

3. Add:

a) R 3 456 + R 5 224 = _____	b) R1 569 + R 8 369 = _____

(2)

4. Fill in the missing number.

4 100; 4 125; 4 150; 4 175; _____

(1)

5. Write down the value of the underlined digits.

a) 3 <u>5</u>03 _____ b)<u>2</u> 984 _____

(1)

6. Write in the missing values.

9 235 = (9 x 1 000) + (2 x _____) + (3 x _____) + (5 x 1)

(1)

7. Subtract:

a) 4 163 – 2 492	b) 1 571 – 1 494

(2)

8. Find the product of:

a) 123 x 34	b) 1 287 x 45

(2)

9. Write the numeral for the following words:

a) nine thousand seven hundred and twenty-six _____

b) five hundred , eleven thousand and sixty –two _____ (2)

10. Write the value of the 7 in each of the following numbers:

a. 107_____

b. 75_____

c. 798_____

(3)

11. Find the quotient:

a) 159 ÷ 6	b) 294 ÷ 8

(2)

12. Write the following as Rands:

a) 4 342c _____

b) 990c _____

c) 8 452c _____

d) 906c _____

(2)

13. Arrange each row in ascending order.

a) 102; 201; 112; 222;	b) 345; 678; 1 020; 200;

(1)

14. Fill in the missing numbers :

a) 0,5; 1; ……..; 2; 2,5; …… b) 5,5; 4,5; ……..; 2,5; ……..; ……

(2)

15. Solve the fraction problem:

a) ⅛ of the learners in our class cycle to school and ⅝ walk to school.

What fraction of the learners neither cycle nor walk to school? _____ (1)

Name :_____ **Grade 5**

Content Area: Pattern, Functions and Algebra

BASELINE ASSESSMENT

(Will assess Grade 4 knowledge and skills)

_____
10

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 30 minutes to answer all the questions.

1. Describe a rule for each number pattern. The first one has been done for you.

21; 28; 35; 42; 49; 56 … Pattern: *Start with 21 and add 7 to each number.*

a) 486; 484; 482; 480; 478 … Pattern: _____

b) 32; 16; 8; 4; 2 … Pattern: _____

c) 8; 9; 11; 14; 18 … Pattern: _____

d) 1; 3; 9; 27; 81 … Pattern: _____

(4)

1. Read the instructions and work out what the next three numbers of each pattern.

a) Start with 62 and subtract 4 from each number. (62, _____, _____, _____,)

b) Start with 48 and divide each number by 2. (48 _____, _____, _____,)

c) Start with 3, add 5, repeat this pattern. (8 ; _____, _____, _____,)

d) Start with 1 and 2. Add the last two terms to obtain the next number (3 ,_____, _____, _____)

(4)

2. Complete the table by writing the answer in the space below.

3 + 4 = 7	13 + 4 = (a)	23 + 4 = (b)	33 + 4 = (c)	? + ? = (d)
	a)	b)	c)	d)

(2)

Name :_____ **Grade 5**

Content Area: Space and Shapes

BASELINE ASSESSMENT

(Will assess Grade 4 knowledge and skills)

_____
15

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 30 minutes to answer all the questions.

1. Complete these sentences:

a) A quadrilateral is any _____.

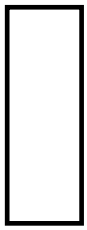
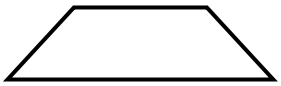
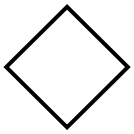
b) A trapezium is a quadrilateral _____.

c) A rhombus is a parallelogram _____.

d) A _____ is a parallelogram with four 90º (right) angles.

e) A _____ can be both a rhombus and a rectangle. (5)

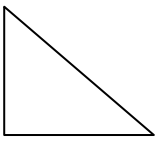
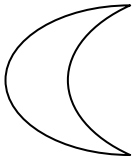
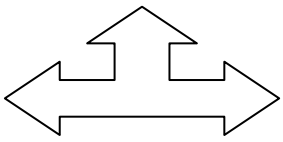
2. In the following chart, complete each blank with the correct number or word.

This shape appears to have… _____ pairs of parallel sides. _____ pairs of equal sides. _____ right angles. I think this shape is a _____. 	This shape appears to have… _____ pairs of parallel sides. _____ pairs of equal sides. _____ right angles. I think this shape is a _____. 
This shape appears to have… _____ pairs of parallel sides. _____ pairs of equal sides. _____ right angles. I think this shape is a _____. 	This shape appears to have… _____ pairs of parallel sides. _____ equal sides. _____ right angles. I think this shape is a _____. 

(8)

3. Neatly draw the line of symmetry for each shape.

a) b) c) d) (2)

Name :_____ **Grade 5**

Content Area: Measurement

BASELINE ASSESSMENT

(Will assess Grade 4 knowledge and skills)

_____
15

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 30 minutes to answer all the questions.

1. How many:

a) kilograms is exactly half way between 2,5kg and 1,5 kg? _____

b) metres is exactly half way between 11 km and 12 km _____

c) 1 litre = 250 ml + ……ml

d) Which is greater, 2 litres or 1 800 ml._____

e) Approximately how much petrol does a car's petrol tank hold. Circle the correct answer.

(5 ml, 50 ml, 500 ml, 5 litres, 50 litres)

f) Approximately how much does a can of Coke hold. Circle the correct answers.

(1 litre, 200 ml, 20 ml, 350 ml, 350 litres)

g) Convert 1 km 400 m to metres. _____

h) 1 kilogram = 200g + _____ g + _____ g + _____ g = _____ g

(4)

2. Fill in the answers:

a) 2 h = ……. min

b) 5 min = …… s

c) I min 28 s = ……. s

d) 72 min = …….. h…….. mins

(2)

4. Answer the following questions

a) How many hours in a day? _____

b) How many minutes in half an hour? _____ (2)

5. Change these times to 24-hour times:

   a) 8.41 a.m. _____

   b) 3.10 p.m. _____ (1)

6. Change these times to a.m. or p.m. times:

   a) 10:45 _____

   b) 14:07 _____

   c) 16:54 _____

   d) 02:15 _____ (2)

7. Use this train schedule to answer the questions below

Station	Arrives	Departs
A	09:50	10:05
B	11:24	11:32
C	12:45	12:55
D	13:52	14:06
E	16:05	16:20
F	17:45	18:45

   a) How long does the train stop at Station A? _____

   b) What time does the train depart from Station E in a.m. or p.m. time? _____

   c) What time, in a.m. or p.m. time, does the train arrive at Station D?_____

   d) What station has the longest stop over?_____ (4)

Name :_____ **Grade 5**

Content Area: Data Handling

BASELINE ASSESSMENT

(Will assess Grade 4 knowledge and skills)

_____
10

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 30 minutes to answer all the questions.

1. Study the TV guide, the answer the following questions (5)

133 SABC 3

Only available in South Africa

07:30 Sylvester and Tweety
08:00 AM Shopping
09:30 Debbie Travis Painted House
10:00 Cricket: SA vs Australia
12:00 News @ 1
13:00 Sport to Fill
13:10 Cricket: SA vs Australia continues
17:45 3 Talk with Noeleen
18:30 Isidingo
19:00 News @ 7
19:30 Aliens in America
20:00 Wondrous Oblivion
22:00 Dollars and White Pipes

a) Which programmes can you watch at 9:30 in the morning?_____

b) What time does "Sport to Fill" start? Write this as a.m. or p.m. time. _____

c) Which programme starts at 8 p.m.?_____

_____

d) How many minutes does the programme "Sylvester and Tweety" last? _____

e) How long is the cricket on for? _____

2. For losing her first tooth, Katie received R1 from the tooth fairy. She received R 2 for losing her second tooth. After that, the amount she received for each tooth doubled.

a) Complete the chart below. (3)

Tooth	Amount Received	Total Amount
1	R 1	R 1
2	R 2	R 3
3		
4		
5		

b) How much would Katie have in total after losing six teeth? _____ (2)

Grade 6: Baseline Tests

Name :_____ **Grade 6**

Content Area: Numbers, Operations and Relationships

BASELINE ASSESSMENT

(Will assess Grade 5 knowledge and skills)

_____
30

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 60 minutes to answer all the questions.

1. Count in 11s from 110 to 200 : _____

_____

(1)

2. Count backwards in 7s from 84 to 14: _____

_____

(1)

3. Write each fraction as a decimal. An example has been done for you

E.g. Five tenths $= \frac{5}{10} = 0.5$

a) Six tenths = =

b) Two fifths = =

c) Four fifths = =

d) Three quarters = =

(4)

4. Write each decimal in words. The first one has been done for you.

E.g. 0,1 = One tenth

a) 0,3 _____

b) 0, 08 _____

c) 0,5 _____

d) 0, 002 _____

(2)

5. Complete each blank with >, =, or <.

a) 234 x 3 _____ 564 x 2

b) 250 + 345 _____ 785

(2)

6. Write the numbers in order, from smallest to largest.

a) 226, 350, 234, 278, 412, 399, 243, 447

_____ (1)

b) 0,24, 240, 402 , 4002 ,2004, 0,124

_____ (1)

7. List all of the factors of each of the following numbers.

a) 14 _____

b) 35 _____

c) 21 _____

d) 17 _____

e) 36 _____

f) 43 _____

(6)

8. What is a prime number ? _____

_____ (1)

9. What is a composite number ? _____

_____ (1)

10. Calculate the following sums. (Show your working out)

a) Add R43 256 and R12 349

c) Find the sum of 34 908 and 12 765.

b) Subtract 23 599 from 89 675

d) What is the product of 456 and 59?

(8)

11. In town, the people are allowed to use 1 500 litres of free water per month.

Last month, the Smith family used 9 432 litres.

How many litres will they have to pay for?

(2)

Name :_____ **Grade 6**

Content Area: Patterns, Functions and Algebra

BASELINE ASSESSMENT

(Will assess Grade 5 knowledge and skills)

_____
10

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 30 minutes to answer all the questions.

1. Find the pattern and complete:

   a) 9; 12; 15; _____ ; _____ ; _____

   b) O; P ; Q; _____ ; _____; _____

   c) January ; February ; _____; _____

(3)

2. Complete the pattern by filling in the missing numbers.
   State a rule for each number pattern.

   a) 4; 7; ___; 13; 16; __ ; 22. Pattern:_____

   b) 623; 618; ___; 608; ___; 598. Pattern:_____

   c) ____ ; 17; 21; 25; ___ ; 33. Pattern: _____

   d) 1; ___ ; 3; 5, 8, 13, 21, ___ Pattern: _____

(4)

3. Martin is creating the following number pattern: 6; 12; 18; 24; 30 …

   What will the number 62 be in Martin's pattern? _____

(1)

4. Complete the following charts by filling in the missing numbers. Briefly describe each pattern.

a)

Hours Spent Watching TV	Spelling Mark
1	95
2	90
3	85
4	
5	
6	

Pattern: _____

b)

Minutes Spent Skipping	Calories Consumed
1	4
2	8
3	12
4	
5	
6	

Pattern: _____

(2)

Name :_____ **Grade 6**

Content Area: Space and Shapes

BASELINE ASSESSMENT

(Will assess Grade 5 knowledge and skills)

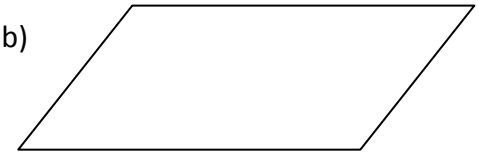
____ 15

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 30 minutes to answer all the questions.

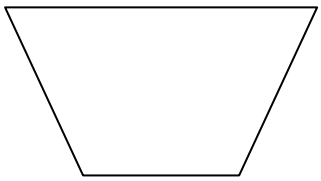
1. Look at the shapes below; Identify the shapes that have parallel lines or perpendicular lines?

a) 

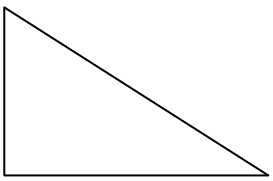
parallel / perpendicular / neither/ both

b) 

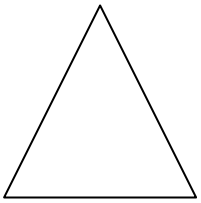
parallel / perpendicular / neither/ both

c) 

parallel / perpendicular / neither/ both

d) 

parallel / perpendicular / neither/ both

a) 

parallel / perpendicular / neither/ both

f) 

parallel / perpendicular / neither/ both

(3)

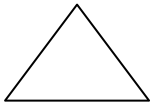
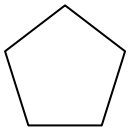
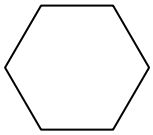
2. Choose the correct word from the block below, to complete the sentences:

Edge	**Vertex**	**Face**

a) A _____ is a flat surface, like a floor or the top of a box.

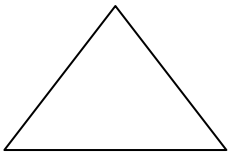
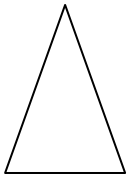
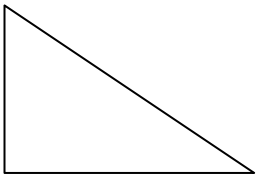
b) A _____ is a "point" or corner where several faces and edges meet. (1)

3. Complete the table below:

2D Shape	Name	Sides	Vertices	Angles
				
				
				
				

(8)

4. Name the following different types of triangles and a characteristics for each triangle:

a) 	1.
b) 	1.
c) 	1.

(3)

Name :_____ **Grade 6**

Content Area: Measurement

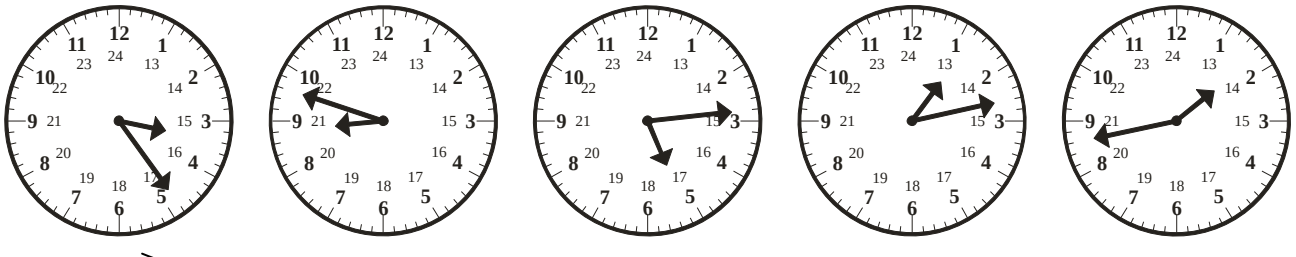
BASELINE ASSESSMENT

(Will assess Grade 5 knowledge and skills)

_____
15

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 30 minutes to answer all the questions.

1. Draw a line from each clock to the correct time. One example has been drawn for you.



17:14 01:43 13:13 03:24 20:48

(2)

2. Complete each conversion:

a) 11 m = _____ mm

b) 5,234Kg = _____g

c) 0,500 ℓ = _____mℓ

(3)

3. Insert $<$; $>$;or $=$ to make each statement true. The first one has been done for you (4)

E.g. 24.6 cm $>$ 0.20 m
a) 7493 g _____ 7621 g + 7 kg
b) 7493 g + 243 g _____ 0.0892 kg + 80592 g
c) 5836 m + 345 cm + 611 cm _____ 6823 m
d) 4.5 km + 3467 mm _____ 7 km + 289 mm

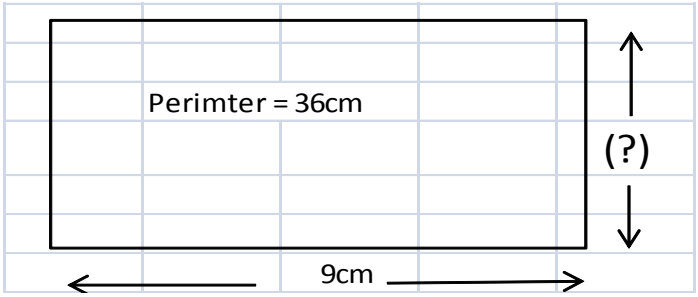
4. Write a formula for the perimeter of a rectangle.

Perimeter = _____ (1)

5. Write a formula for the area of a rectangle.

Area = _____ (1)

6. Calculate the breadth of the rectangle and then the area of the rectangle:



a) The breadth of this rectangle: _____

(2)

b) The area of this rectangle:_____ (2)

Name :_____ **Grade 6**

Content Area: Data Handling

BASELINE ASSESSMENT

(Will assess Grade 5 knowledge and skills)

_____
10

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 30 minutes to answer all the questions.

1. The tables below contain the total number of pages read by five different learners in Mrs Smith's class.

Bill	
Day	Total Pages
1	25
2	30
3	35
4	40
5	45

Hlomela	
Day	Total Pages
1	20
2	39
3	57
4	74
5	90

Jamie	
Day	Total Pages
1	2
2	4
3	8
4	16
5	32

Linette	
Day	Total Pages
1	20
2	25
3	45
4	50
5	70

Mala	
Day	Total Pages
1	25
2	35
3	45
4	55
5	65

How many pages will each student have read by Day 8?

a) Bill = _____

b) Hlomela = _____

c) Jamie = _____

d) Linette = _____

e) Mala = _____

(5)

2. The Johnson family is planning a trip from PE to one of the cities listed on the table below.

   However they have a newborn baby and they wish to travel for as little time as possible.

	Cape Town	Bloemfontein	Durban
Train	10 hours	11 hours	8 hours
Plane	2 hours	75 minutes	90 minutes
Car	10 hours	12 hours	7 hours

   Where should the Johnson family travel to, and how should they get there?

(2)

3. Three friends are moving. Each one is moving to a different town listed below.

   Janet prefers small communities.
   Steve loves the big city life.
   Susan would like to live in a middle-sized town.

   If each person is happy with his/her new town, then

Location	Population
Hamilton	500 000
Beamsville	9 000
Astorville	1 000

   a) Janet moved to _____.

   b) Steve moved to _____.

   c) Susan moved to _____.

(3)

Grade 7: Baseline Tests

Name :_____ **Grade 7**

Content Area: Numbers, Operations and Relationships

BASELINE ASSESSMENT

(Will assess Grade 6 knowledge and skills)

_____
30

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 60 minutes to answer all the questions.

1. Mental Maths

   a) 4 560+ _____ = 5 000

   b) Halve 28 654 = _____

   c) Double 63 566 = _____

   d) What number is 300 more than 5 985? _____

   e) What number is 400 less than 3 020? _____

   f) What number lies half way between 5 600 and 6 300? _____

   g) Write down the next number: 804; 799; 794; 789;_____

   h) What number multiplied by itself equals 64? _____

   i) Write down the multiples of 7 between 40 and 60 _____

   j) Half of 424 plus 288= _____

(10)

2. Arrange the numbers in ascending order:

   2 364 574; 2 436 754; 2 346 475; 2 463 457

   _____(1)

3. Write down the place value of the underlined digits:

   e.g. <u>5</u> 487 124 = 5 000 000

   a) 3 4<u>5</u>2 789 = _____

   b) <u>1</u> 237 544 = _____

(1)

4. The number is 3 452 786. Write down the number that is:

a) 2 million less = _____

b) 100 000 more = _____

(2)

5. Write the number that is represented below:

(3x1 000 000) + (8x10) + (4x100 000) + (2x1 000) + (7x100) + (5x10 000) + 6 = _____

(1)

6. Round off these numbers to the:

	Number	Answer below
Nearest 10	a) 253	
Nearest 100	b) 36 489	
Nearest 10 000	c) 85 613	
Nearest 1 000 000	d) 1 982 624	

(4)

7. Fill in each blank space with <, >, or = to make the statement true.

a) $\frac{3}{8}$ _____ $\frac{1}{4}$ b) $\frac{5}{10}$ _____ $\frac{1}{2}$

c) $\frac{4}{6}$ _____ $\frac{1}{3}$ d) $\frac{1}{6}$ _____ $\frac{3}{12}$

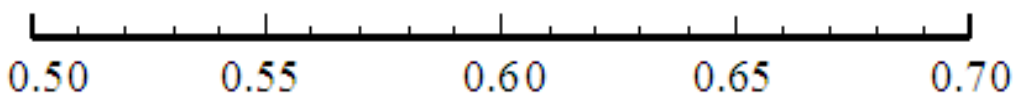
(4)

8. Multiples of 12 are also multiples of another number. Circle the correct number.

a) 4 b) 5 c) 7 d) 8 e) 10

(1)

9. Place a dot on the number line at each of the given numbers: 0.57, 0.68, and 0.63



(3)

10. Sipho and Dennis were discussing prime and composite numbers.

Sipho said that 21 was a prime number, but Dennis said that it was a composite number.

Who was correct? Explain why he was correct.

_____

_____ (2)

11. Study the table below.

Table 2: Mid-year population estimates by province, 2010

	Population Estimate	Percentage share of the total population
Eastern Cape	6 743 800	13,5
Free State	2 824 500	5,7
Gauteng	11 191 700	22,4
KwaZulu-Natal	10 645 400	21,3
Limpopo	5 439 600	10,9
Mpumalanga	3 617 600	7,2
Northern Cape	1 103 900	2,2
North West 3	200 900	6,4
Western Cape	5 223 900	10,4

Source: StatsSA

According to this Census, there were 4 739 090 people living in the Western Cape and 2 938 236 people living in the Eastern Cape.

How many people was there altogether in these two provinces? (Show your working out)

(1)

Name :_____ **Grade 7**

Content Area: Patterns, Functions and Algebra

BASELINE ASSESSMENT

(Will assess Grade 6 knowledge and skills)

_____
10

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 30 minutes to answer all the questions.

1. State a rule for each number pattern. Use your rule to fill the empty boxes.

   a. 912; 908; _____; 900; _____; 892; 888 …

   Pattern: _____

   b. 3; 12; 48; _____; 768; _____; 12288 …

   Pattern: _____

   c. 7,1 ; 10,7 ; 14,3 ; _____ ; _____ ; 25,1 …

   Pattern: _____

(3)

2. Mr Brick the Builder pays his labourers R105 a day. Use a table to work out how much he will have to pay: 2 labourers, 5 labourers, 10 labourers and 17 labourers per a day.

Labourers	1	2	5	15	17
Money	R 105				

(4)

3. Risha, Devin and Alice each create a number pattern.

   Risha: 15, 18, 21, 24, 27, 30 …

   Devin: 15, 16, 18, 21, 25, 30 …

   Alice: 50, 47, 44, 41, 38, 35 …

   a. State one difference between Devin's pattern and Alice's pattern.

   _____

   b. State one similarity between Risha's pattern and Alice's pattern.

   _____

   c. State one similarity and one difference between Risha's pattern and Devin's pattern.

   _____

(3)

Name :_____ **Grade 7**

Content Area: Space and Shape

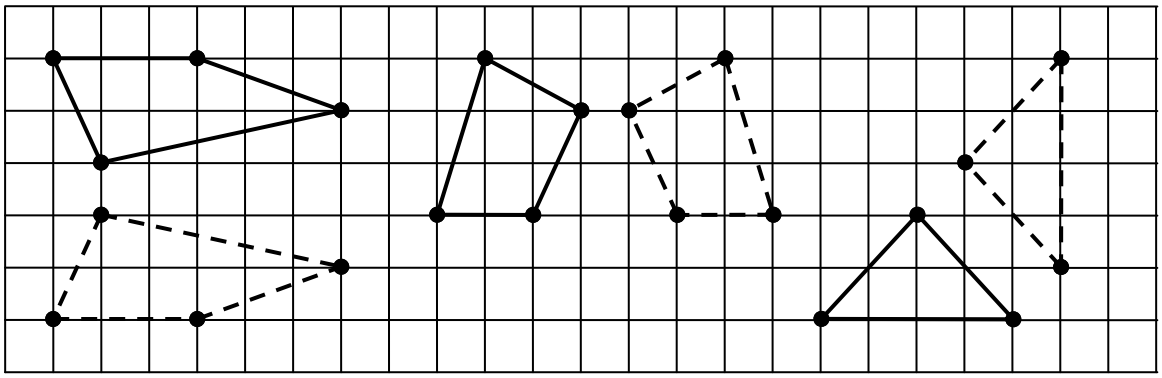
BASELINE ASSESSMENT

(Will assess Grade 6 knowledge and skills)

_____
15

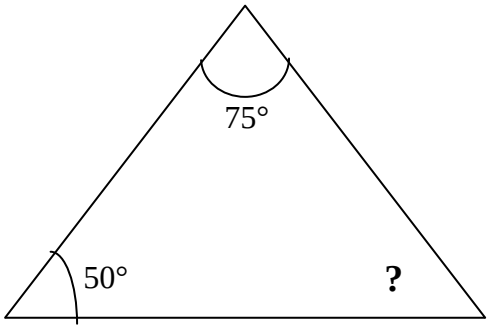
Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 30 minutes to answer all the questions.

1. Each shape has been reflected. Use your pencil and ruler to draw the mirror.

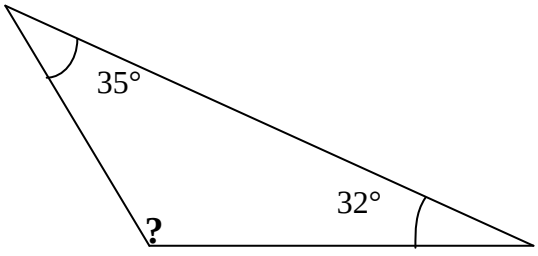


(3)

2. Calculate the missing angle:



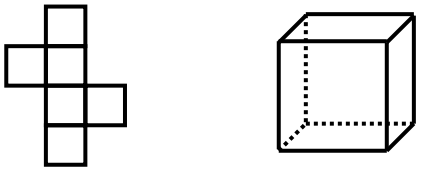
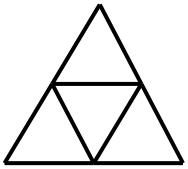
a)



b)

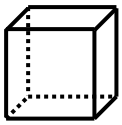
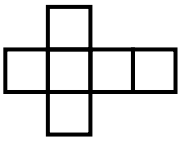
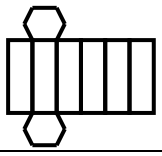
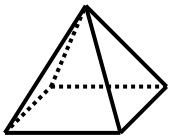
(2)

3. Which of the following nets can be folded into a polyhedron? If a polyhedron can be created, neatly draw it. The first one has been done for you.

a) 	b) 

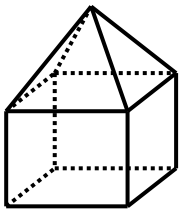
(1)

4. Complete the following table

Polyhedron	Net	Vertices (V)	Faces (F)	Edges (E)
		8	6	12
				
				

(4)

5. Record the number of faces, edges and vertices of this shape.



Faces ____

Edges ____

Vertices ____

(3)

6. Draw these different types of triangles and give one characteristic for each triangle

Equilateral triangle (draw)	Right angled triangle (draw)
One characteristic	One characteristic

(2)

Name :_____ **Grade 7**

Content Area: Measurement

BASELINE ASSESSMENT

(Will assess Grade 6 knowledge and skills)

_____
15

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 30 minutes to answer all the questions.

1. Answer these questions on temperature:

a) What units do we measure temperature in? _____

b) What instrument do we use to measure temperature? _____

c) True or false: We start measuring temperature at 0. _____

d) The boiling temperature of water is _____

e) A human's normal body temperature is _____

(5)

2. Fill in the following answers:

a) 8m 230mm =_____ mm

b) 900g = _____ kg

c) O,72 litres = _____ ml

d) 69g + 0,4 kg = _____ g

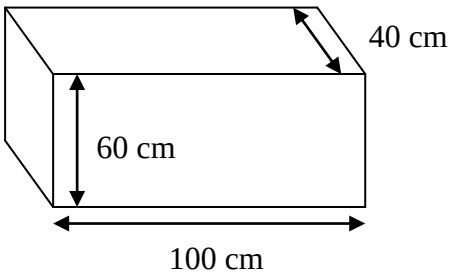
(4)

3. Place these measurements, in the boxes, in order from smallest to largest.

9 m	18 cm	470 mm	12 mm	2 km	0.2 m	0.01 km	1 cm	113 m

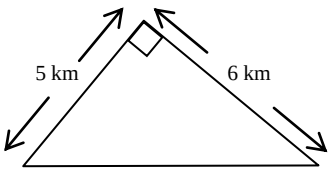
(1)

4. Steven is releasing fish into his fish tank. Steven's fish tank measures 60 cm x 40 cm x 100 cm. For each fish, the fish tank must contain 40 L of water. How many fish can Steven put in his fish tank? (Remember: $1cm^3 = 1ml$)



(2)

5. Calculate the area of the following right triangles.



1. Area is _____ km²

(1)

6. Calculate the following sums:

a) 11 h 18 min + 6 h 45 min

b) 48 y 3 m – 32 y 9 m

(2)

Name :_____ **Grade 7**

Content Area: Data Handling

BASELINE ASSESSMENT

(Will assess Grade 6 knowledge and skills)

_____
10

Instructions to learners
1. Read the questions carefully and work neatly.
2. In some questions you have to draw a circle around the letter of the correct answer. These questions have only one correct answer.
3. In some questions you have to write or fill in the correct answer.
4. You have 30 minutes to answer all the questions.

1. Complete these sentences by filling in the missing words.

Line	Circle	Bar

a) A _____ graph is best for comparing different items.

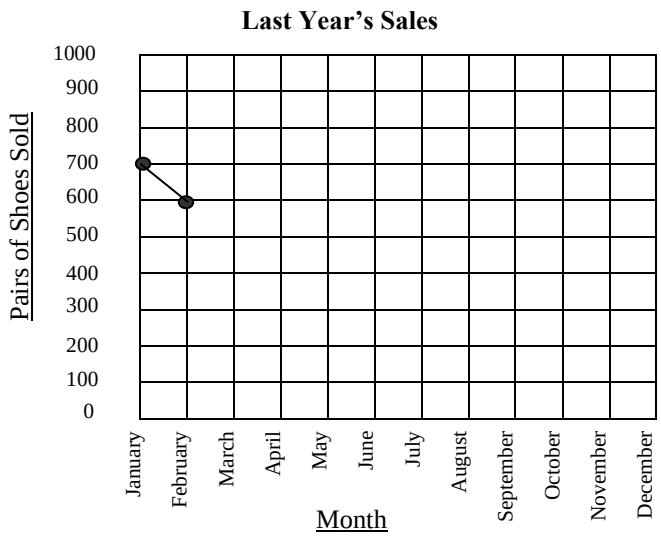
b) A_____ graph is best for comparing parts of a whole or percentages.

c) A _____ graph is best for showing changes over time.

(3)

2. Last year "The Sneaker Store" kept track of the number of pairs of shoes it sold.

a) Use the data on the right to complete the line graph below:



Month	Pairs of Shoes Sold
January	700
February	600
March	400
April	200
May	400
June	400
July	500
August	900
September	700
October	600
November	800
December	1000
Total	7200

b) Calculate the <u>mean number</u> of pairs of shoes sold per month._____

c) What is the mode? _____

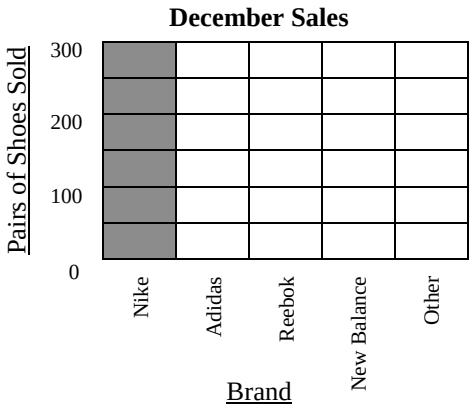
d) What is the median? _____

(4)

3. In December the store also recorded the brand of each pair of shoes it sold.

Complete the bar graph on the right.

Brand	Pairs of Shoes Sold
Nike	300
Adidas	250
Reebok	200
New Balance	150
Other	100



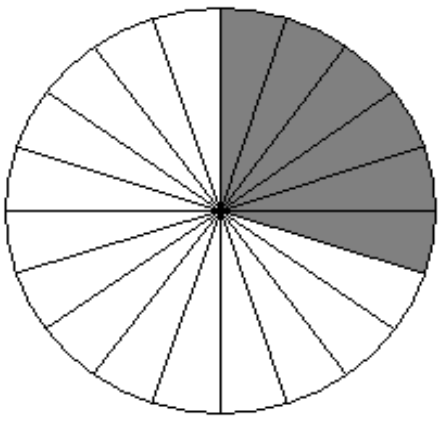
(1)

4. Fill in the chart below and use the information to complete the circle graph and key at the bottom.

Brand name	Pairs of shoes sold	Fraction	Decimal	Percent
Nike	300	*300/1000*	*0.30*	*30 %*
Adidas	250			
Reebok	200			
New Balance	150			
Other	100			

(2)

December Sales



Key	
Brand name	**Colour**
Nike	Grey

Grade 3: Memorandum

Grade 3 Baseline Mem

Content Area: Numbers, Operations and Relationships (30 Marks)

1. 34; 36; 38; 40; 42; 44; 46; 48
   55; 50; 45; 40; 35; 30; 25; 20 (1)
2. 13 - thirteen; 73 - seventy-three; 25 - twenty-five; 62 - sixty-two; 44 - forty-four; 59 - fifty-nine (3)
3. a) 131. b)147 (1)
4. a) 24 b) 41 c) 30 d) 30 (2)
5. 143; 133; 130; 123; 113; 103 (1)
6. a) 30; 57; 66; 90 b) 7; 72; 82; 83 (1)
7. a) 52 = 50 + 2 b) 98 = 90 + 8 (2)
8. a) 12 b) 18 (1)
9. 43 + 25
   43 + (20 + 5)
   43 + 20→63 + 5 = 68 (1)
10. 85 – 34
    85 – (30 + 4)
    85 – 30 → 50 – 4 = 46 (1)

Before	Between	After	Before	Between	After	Before	Between	After
42	43	**44**	89	**90**	91	55	56	**57**

(2)

12. Even numbers = 22; 96; 10; 48 (1)
13. 14 +7 = 21 34 +9 = 43 76 + 10 = 86 90 +12 = 102 (4)
14. 86-9 = 77 65 – 4 = 61 63 – 7 =56 94 – 6 = 88 (4)
15. 54 ≥ 45 67 ≤ 76 37 ≤ 43 64 ≥ 46 (2)
16. a) 16 b) 20 c) 23 (3)

(Total : 30 marks)

Content Area: Patterns, Functions and Algebra (10 marks)

1 a) 30 ; 31 → counting forwards in ones
   b) 85 ; 80 → counting backwards in tens
   c) 55 ; 66 → counting forward in elevens (3)
2. a) 32 + 3 and 42 + 3 b) 23 - 2 and 13 – 2 c) 40 + 4 and 50 + 4 (3)
3. 4 hands = 20 fingers / 6 hands = 30 fingers (2)
4. ◀ (1)
5. →↓ (1)

(Total : 10 marks)

Content Area: Space and Shapes (15 marks)

1. Must be able to redraw the correct shape to match the shape's name (5)
2. a cube (1)
3. heart; stars ; diamond; triangle; ovals rectangle and circle (7)
4 a) 4 sides and 4 corners
   b) 1 side and no corners (2)

(Total: 15 marks)

Content Area: Measurement (15 marks)

1. elephant (1)
2. snake (1)
3. Should have circled the first bottle and crossed out the last bottle (2)
4. 5 days in a school week (1)
5. January ; February ; March ; April ; May ' June (*Must have capital letters and be spelt correctly*) (6)
6. ten o' clock or 10:00 am (1)
7. Must draw in the correct length of arrows in the correct position. (2)
8. Must write your school's starting time correctly (1)

(Total 15 marks)

Content Area: Data Handling (10 Marks)

a) grapes (1)
b) Anna and Vuyo; (2)
c) grapes and pineapples (2)
d) Vuyo (1)
e) Lemons (1)
f) Tom (1)
g) May choose any fruit and give any reasonable answer (2)

(Total 10 marks)

Grade 4: Memorandum

Grade 4 Baseline Memo

Content Area: Numbers, Operations and Relationships (30 Marks)

1. 456; 466; 476 (1)
2. 800; 825; 850 (1)
3. a) 546 + 567 = 1113 b) 390 + 237 = 62 (2)
4. a) 800 – 654 =146 b) 753 – 299 = 454 (2)
5. a) 40 b) 80 c) 590 d) 540 (2)
6. a) seven hundred and forty-five
   b) nine hundred and thirty - five
   c) eight hundred and nineteen
   d) six hundred and seventy-one (*Spelling must be right)* (4)
7. a) 872 b) 777 c) 629 d) 572 (2)
8. a) 601 b) 666 c) 140 d) 499 (2)
9. a) 132; 389; 436; 592
   b) 192; 292; 562; 787
   c) 133; 231; 312; 331
   d) 344; 467; 586; 879 (4)
10. a) 60 + 8
    b) 200 + 40 +1
    c) 500 + 60 + 2
    d) 600 + 60 + 6 (2)
11. a) 785 b) 745 c) 373 d) 687 (2)
12. a) 88 c b) 118 c c) 109 c d) 45 c (2)
13. a) R 10 b) R 4,20 c) R 1,20 d) R 6,37 (2)
14. 1/2 , 1/3 (2)

(Total 30 marks)

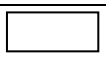
Content Area: Pattern, Functions and Algebra (10 Marks)

1. a) 120; 150; 180;
   b) 200; 250; 300;
   c) Sunday; Tuesday; Thursday
   d) gh; ab; ij; ab (2)
2. Legs: 8; 40; 90
   Hands: 20; 100; 225 (6)
3. a) ΔΔΔΔ●●●●□□□□
   b) 4321 (2)

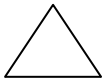
(Total 10 marks)

Content Area: Space and Shapes (15 Marks)

1.

1. 	Rectangle
2. 	Triangle
3. 	Oval
4. 	Cylinder
5. 	Cube

(5)

2. Nice belt (½ x 8 = 4)
3. 2D shapes = heart; diamond / square; hexagon
   3D shapes = cube / cubiod ; cylinder ; rectangular prism (½ x 6 = 3)
4. A square has four sides of equal length and a rectangle has two short sides and two long sides. (2)
5.  (1)

(Total 15 marks)

Content Area: Measurement (15 Marks)

1. about half a long ruler (1)
2. about half of one of the 10 cm strips (1)
3. a) 1½ kg b) 3½ kg c) 2kg (3)
4. a) 500ml b) 1400ml c) 1500ml (3)
5. 7:30 (1)
6. a) Thursday
   b) 4 Wednesdays
   c) Saturday
   d) Thursday the 18th
   e) It is a leap year
   f) March (6)

(Total 15 marks)

Content Area: Data Handling (10 Marks)

1. Fuzin; Henry; Jenny; Neeta. (2)
2.

a) Lee	b) Alex Bill Vuyo Iris Mike	c) Tulisa Debbie

(4)

3. a) jam
   b) 5
   c) tuna / ham
   d) 1 (4)

(Total 10 marks)

Grade 5: Memorandum

Grade 5 Baseline Memo

Content Area: Numbers, Operations and Relationships (30 Marks)

1. a) 49 b) 952
   c) 89 d) 100
   e) 32 f) 852
   g) 175 h) 500
   i) 315 j) 7 (½ x 10 = 5 marks)
2. a) 56; 63; 70; 77; 84; 91.
   b) 27; 36; 45; 54; 63; 72; 81; 90; 99.
   c) 64; 72; 80; 88; 96 (1 x 3 = 3)
3. a) 8 680 b) 9 938 (1 x 2 = 2)
4. 4200 (1)
5. a) 500 b) 2000 (1)
6. 2 x 100 + 3 x 10 (1)
7. a) 8 323 b) 3 560 (2)
8. a) 1 671 b) 77 (2)
9. a) 9726 b) 11 562 (2)
10. a) 7 b) 70 c) 700 (3)
11. a) 954 b) 2352 (2)
12. a) R43,42 b) R9,90 c) R84, 52 d) R9,06 (2)
13. a) 102; 112; 201; 222. b) 200; 345; 678; 1020. (1)
14. a) 1,5 ; 3 b) 3,5; 1,5; 0,5 (2)
15. ¼ (1)

(Total 30 marks)

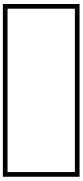
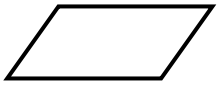
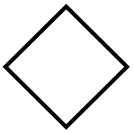
Content Area: Patterns, Functions and Algebra (10 Marks)

1. a) start with 486 and subtract 2 from each number.
   b) start with 32 and divide by 2
   c) start with 8 and 1: 9 add 2; 11 add 3; 14 add 4 etc.
   d) start with 1 and multiply by 3 (4)
2. a) 58; 54; 50.
   b) 24; 12; 6
   c) 6; 9; 12; 15
   d) 8; 13; 18; (4)
3. 17; 27; 37; 43 + 4 = 47 (2)

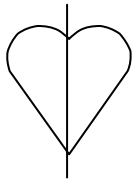
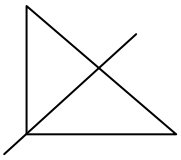
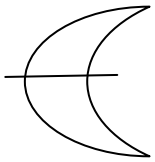
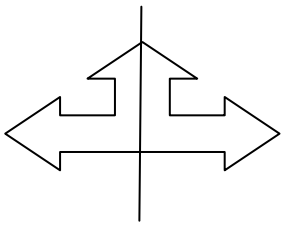
(Total 10 marks)

Content Area: Space and Shapes (15 Marks)

1. a) A quadrilateral is any 4-sided figure.
   b) A trapezium is a quadrilateral with one pair of opposite sides parallel.
   c) A rhombus is a parallelogram with 4 sides of equal length and opposite sides are parallel and opposite angles are equal.
   d) A square
   e) A parallelogram (5)
2. (8)

This shape appears to have… 2 pairs of parallel sides. 2 pairs of equal sides. 4 right angles. I think this shape is a rectangle. 	This shape appears to have… 1 pair of parallel sides. 2 equal sides. 0 right angles. I think this shape is a trapezium. 
This shape appears to have… 2 pairs of parallel sides. 2 pairs of equal sides. 0 right angles. I think this shape is a parallelogram. 	This shape appears to have… 4 parallel sides. 4 equal sides. 4 right angles. I think this shape is a diamond / square. 

3. Lines of symmetry: (2)

(Total 15 marks)

Content Area: Measurement (15 marks)

1. a) 2kg
   b) 11,5km
   c) 750ml
   d) 2 litres
   e) 50 litres
   f) 350ml
   g) 1400m
   h) 200g + 200g + 200g + 200g (4)
2. a) 120mins
   b) 300s
   c) 88s
   d) 1 hour and 12mins (2)
3. a) 24 hours b) 30 minutes (2)
4. a) 08:41 b) 15:10 (1)
5. a) 10:45 am b) 2:07 pm c) 4:54 pm d) 2:15 am (2)
6. a) 15 mins b) 16:20 / 4:20pm c) 13:52 /1:52pm d) Station F (4)

(Total 15 marks)

Content Area: Data Handling: (10 Marks)

1. a) Debbie Travis Painted House
   b) 13:00 / 1pm
   c) Wonderous Oblivion
   d) 30 mins
   e) 2 hours + 4 hours 35 mins = 6 hrs 35 mins (5)

2. a)

Tooth	Amount Received	Total Amount
3	R4	R3 + R4 = R7
4	R8	R7 + R 8 = R15
5	R16	R15 + R16 = R 31

(3)

   b) R63 (2)

(Total 10 marks)

Grade 6: Memorandum

Grade 6 Baseline Memo

Content Area: Numbers, Operations and Relationships (30 Marks)

1. 110; 121; 132; 143; 154; 165; 176; 187; 198 (1)
2. 77; 70; 63; 56; 49; 42; 35; 28; 21; 14 (1)
3. a) 0,6 b) 0,4 c) 0,8 d) 0,75 (4)
4. a) three tenths b) eight hundredths c) five tenth or half d) two thousandths (2)
5. a) 234 x 3 < 564 x 2
   b) 250 + 345 < (2)
6. a) 226; 234; 243; 278; 350; 399; 412; 447. (1)
   b) 0,124; 0,24; 240; 402; 2004; 4002. (1)
7. a) 1; 2; 7; 14
   b) 1; 5; 7; 35.
   c) 1; 3; 7; 21
   d) 1; 17
   e) 1; 2; 3; 4; 6; 9; 12; 18; 36.
   f) 1; 43. (6)
8. Only has 2 factors – can only be divided by 1 and itself. (1)
9. Can be divided and has more than 2 factors. It is a positive integer. (1)
10. a) R 55 605 b) 66 076 c) 47 673 d) 26 904 (8)
11. 7 932 litres (2)

(Total 30 marks)

Content Area: Patterns, Functions and Algebra (10 Marks)

1. a) 18; 21; 24. b) R; S; T c) March; April. (3)
2. a) 4, 7, 10, 13, 16, 19, 32. Pattern: Start with 4 and add 3
   b) 623, 618, 613, 608, 603, 598. Pattern: Start with 623 and subtract 5
   c) 13 17, 21, 25, 29, 33. Pattern: Start with13,add 4
   d) 1, 2, 3, 5, 8, 13, 21, 34 Pattern: Add the 2 previous numbers together to get the next number. (4)
3. No (1)
4. a) Every extra hour of TV watched, results in poor spelling marks/ decrease by 5marks
   b) For every minute spent exercising, 4 calories are used up.(Multiples of 4) (2)

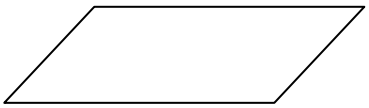
(Total 10 marks)

Content Area: Space and Shapes (15 Marks)

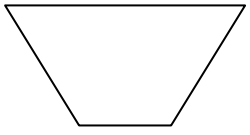
1. Look at the shapes below; Identify the shapes that have parallel lines, perpendicular lines or both. (3)

a) 

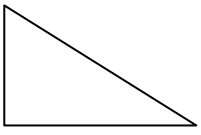
both

b) 

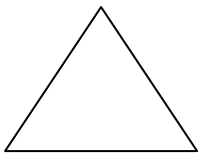
parallel

c) 

parallel

d) 

perpendicular

e) 

neither

f) 

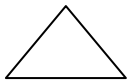
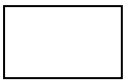
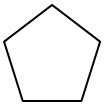
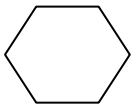
both

2. Fill the correct word to complete the sentence:

edge	vertex	face

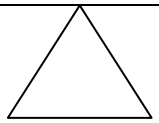
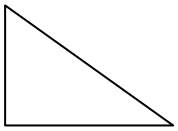
a) A face is a flat surface, like a floor or the top of a box.
b) A vertex is a "point" or corner where several faces and edges meet. (1)

3. Complete the table by filling in the answers.

2D SHAPE	NAME	SIDES	VERTICES	ANGLES
a) 	triangle	3	3	3
b) 	rectangle	4	4	4
c) 	pentagon	5	5	5
d) 	hexagon	6	6	6

(8)

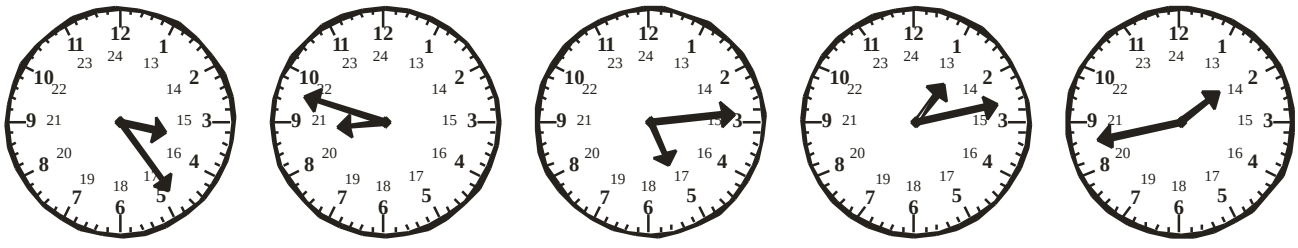
4.

a) 	Name: Equilateral triangle A characteristic - It has 3 equal side
b) 	Name: Isosceles triangle A characteristic - It has two equal sides
c) 	Name: right angled triangle A characteristic - It has one right angle of 90 º

(3)
(Total 15 marks)

Content Area: Measurement (15 Marks)

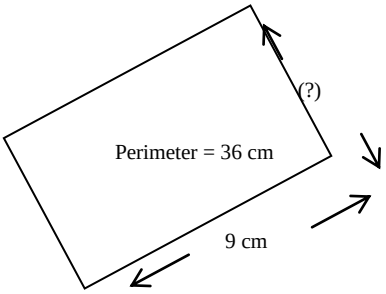
1.



17:14 01:43 13:13 03:24 20:48

a) clock 1 = 03:24
b) clock 2 = 20:48
c) clock 3 = 17:14
d) clock 4 = 13:13
e) clock 5 = 01:43 (2)

2. Complete each conversion:
   a) 11 m = 11 000 mm
   b) 5,234 Kg = 5 234 g
   c) 0,500 ℓ = 500 mℓ (3)
3. a) 7493 g < 7621 g + 7 kg
   b) 7493 g + 243 g < 0,0892 kg + 80592 g
   c) 5836 m + 345 cm + 611 cm __>__ 6823 m + 433 cm + 22 cm
   d) 4.5 km + 3467 mm < 7 km + 289 mm (4)
4. Write a formula for the perimeter of a rectangle.
   Perimeter = 2 (length + breadth / width) / 2 (l + b) (1)
5. Write a formula for the area of a rectangle.
   Area = length x breadth /width (1)
6. Calculate the breadth of the rectangle and then the area of the rectangle:



   a) the breadth of this rectangle: 9 cm (2)
   b) the area of this rectangle: 9 x 9 = 81 m² (2)

(Total 15 marks)

Content Area: Data Handling (10 marks)

1. How many pages will each student have read by Day 8?
   a) Bill = 60 pages
   b) Hlomela = 132 pages
   c) Jamie = 256 pages
   d) Linette = 100 pages
   e) Mala = 95 pages (5)
2. a) Bloemfontein by plane. (2)
3. The three friends move to:
   Janet moved to Astroville
   Steve moved to Hamilton
   Susan moved to Beamsville (3)

(Total 10 marks)

Grade 7: Memorandum

Grade 7 Baseline Memo

Content Area: Numbers, Operations and Relationships (30 marks)

1. a) 440 b) 14 327
   c) 127 132 d) 6 285
   e) 2 620 f) 5 950
   g) 784 h) 8
   i) 42; 49; 56 j) 500 (10)
2. 2 363 457; 2 364 574; 2 436 754; 2 436 754; 2 463 457 (1)
3. a) 50 000 b) 1 000 000 (1)
4. a) 1 452 786 b) 4 452 786 (2)
5. 3 452786 (1)
6. (4)

	Number	Answer below
Nearest 10	a) 253	**250**
Nearest 100	b) 36 489	**36 500**
Nearest 10 000	c) 85 613	**90 000**
Nearest 1 000 000	d) 1 982 624	**2 000 000**

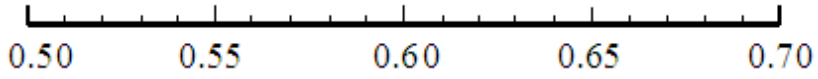
7.

a) $\frac{3}{8}$ **>** $\frac{1}{4}$ b) $\frac{5}{10}$ **=** $\frac{1}{2}$

c) $\frac{4}{6}$ **>** $\frac{1}{3}$ d) $\frac{1}{6}$ **<** $\frac{3}{12}$

(4)

8. a) 4 (1)
9. (3)



10. Dennis. Reason : Factors of 21 are 1, 3,7,21. Prime numbers only have two factors. (2)
11. **7 677 326** people live in these two provinces. (1)

(Total 30 marks)

Content Area: Patterns, Functions and Algebra (10 marks)

1. a) 904; 896 - Start with 912 and subtract 4
   b) 192; 3072 - Start with 3 and multiply by 4
   c) 17,9; 21,5 - Start with 7,1 and add 3,6 (3)
2.

Labourers	1	**2**	**5**	**10**	**17**
Money	R 105	**R210**	**R525**	**R1 050**	**R1 785**

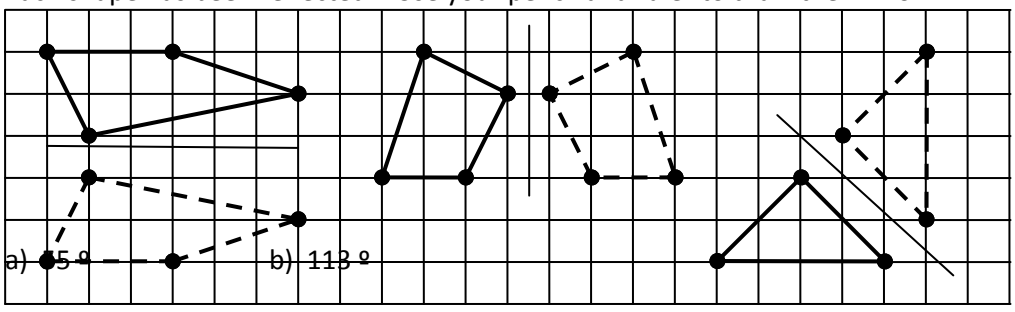
(4)

3. a) Alice's pattern **decreases by 3 from 50** , while Devin's **increase from 15**.
   b) Both patterns have a **difference of 3 between neighbouring numbers / term**.
   c) **Both increase from 15**, but have **different differences between the numbers/ term**. (3)

(Total 10 marks)

Content Area: Space and Shapes (15 marks)

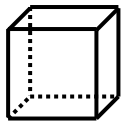
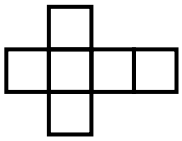
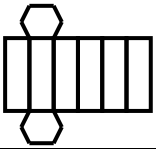
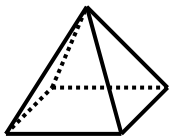
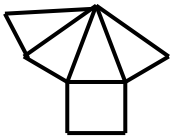
1. Each shape has been reflected. Use your pencil and ruler to draw the mirror. (3)



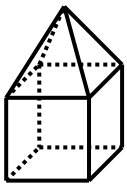
2. a) 45 º b) 113 º (2)

3) triangular pyramid (1)

4. (4)

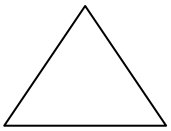
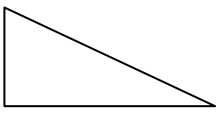
Polyhedron	Net	Vertices (V)	Faces (F)	Edges (E)
		*8*	*6*	*12*
Hexagonal prism		**12**	**8**	**18**
		**5**	**8**	**5**

5. (3)



Faces: **9**
Edges: **16**
Vertices: **9**

6. (2)

a) 	Name: Equilateral triangle A characteristic - It has 3 equal side
c) 	Name: right angled triangle A characteristic - It has one right angle of 90º

(Total 15 marks)

Content Area: Measurement (15 marks)

1. a) degrees Celsius
   b) Thermometer
   c) False – we measure below freezing (-) minus temperatures.
   d) 100°C
   e) 37°C (5)
2. a) 8 230mm b) 0,9kg c) 720ml d) 469g (4)
3.

1cm	12mm	18cm	0,2m	470mm	9m	0,01km	113km	2km

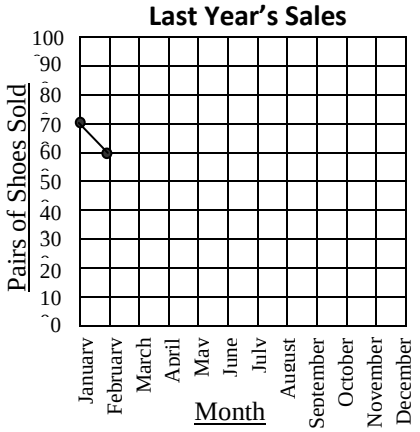
(1)

4. Steven‘s fish tank can hold 60 x 40 x100 cm² = 240 000 ml = 240 litres of water.
   240 litres divided by 40 litres = 6.
   Steven can fit **6 fish** in his fish tank. (2)
5. 15 km² (1)
6. Calculate the following sums (2)
   a) 11 h 18 min + 6 h 45 min = <u>18 h 03 min</u>
   b) 48 y 3 m - 32 y 9 m = <u>15 y 6 m</u>

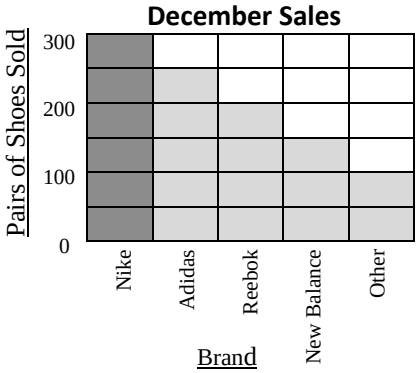
(Total 15 marks)

Content Area: Data Handling (10 marks)

1. Complete these sentences by filling in these phrases
   a) A **bar** graph is best for comparing different items.
   b) A **circle** graph is best for comparing parts of a whole or percentages.
   c) A **line** graph is best for showing changes over time. (3)
2. a)



   b) . 600 pairs c) 400 pairs d) 600 pairs (4)
3.



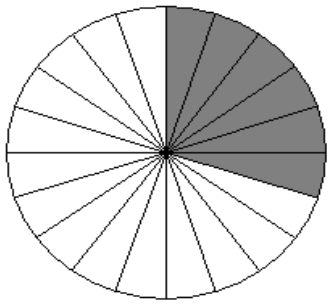
(1)

4. Fill in the chart below and use the information to complete the circle graph at the bottom.

Brands	Pairs of shoes sold	Fraction	Decimal	Percent
Nike	300	*300/1000*	*0.30*	*30 %*
Adidas	250	250 / 1000	**0.25**	**25%**
Reebok	200	200 /1000	**0.20**	**20%**
New Balance	150	150/ 1000	**0.15**	**15%**
Other	100	100 /1000	**0.10**	**10%**

(2)

December Sales



30 %

Key:
Brand name
■ Nike
□ Adidas
□ Reebok
□ New Balance
□ Other

(Total 10 marks)