



Blouberg Ridge Primary School
Grade 6
Mathematics
Mid-Year Examination Paper 2019
Marking Guidelines

Question 1: Choose the correct answer from the options given by circling it. [9]

1.1 What is the value that occurs most in a data collection:

- A) mode B) mean C) scale D) data

1.2) What is the median of the following data set? 55 ; 67 ; 75 ; 42 ; 75 ; 88 ; 31 ; 8 ; 75

_____ 8, 31, 42, 55, 67, 75, 75, 75, 88 _

- A) 88 **B) 67** C) 75 D) 8

1.3) Which one of the following is a composite number?

- A) 5 B) 1 **C) 6** D) 11

1.4 What is $17,55 \times 10$?

- A) 1,755 B) 17,550 C) 1 755 **D) 175,5**

1.5 What is the next number in the following sequence? 1279 ; 1286 ; 1293 ; ...

- A) 1030 **B) 1 300** C) 1299 D) 13 000

1.6) What is the value of the underlined number? 128, 51 (MO)

- A) 5 B) 50 C) $\frac{1}{5}$ **D) $\frac{5}{10}$**

1.7 What is the temperature on the thermometer as a mixed number?

A) $37 \frac{1}{32}^{\circ}\text{C}$

B) $37 \frac{32}{1}^{\circ}\text{C}$

C) $37 \frac{32}{100}^{\circ}\text{C}$

D) $37 \frac{32}{1000}^{\circ}\text{C}$



1.8 What is the value of $1 \times 10\,000 + 4 \times 10 + 9 \times 100 + 6 \times 1$?

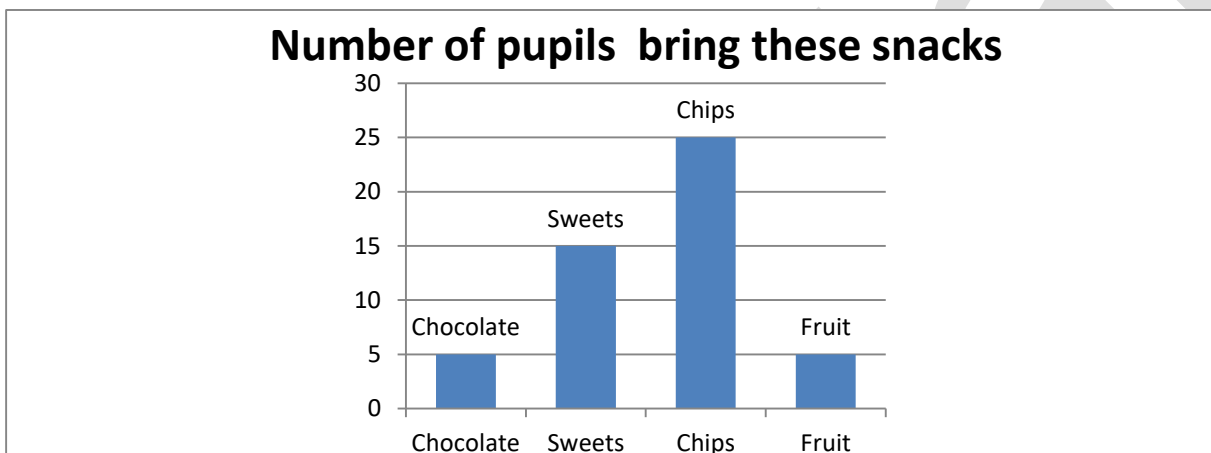
A) 10 496

B) 1 946

C) 10 946

D) 1 496

1.9) This pie chart indicates snacks brought to school by learners in Grade 6. What fraction of learners brought the most popular snack? (MO)



A) $\frac{25}{1}$

B) $\frac{1}{25}$

C) $\frac{25}{50}$

D) $\frac{25}{25}$

QUESTION 2:

[5]

Match column A with an answer from column B. Write down only the **letter** of your choice in the table. (5x1 mark)

COLUMN A		COLUMN B
2.1	Four thousand and sixty-two rounded off to the nearest 5 is (LO)	A. Transformations
2.2	When an object does not have a line of symmetry (LO)	B. 4 060
2.3	$42 - 9 \div 3 + 4 =$ (MO)	C. 4 065
2.4	$\frac{3}{8}$ of 24 (MO)	D. 43
2.5	The largest possible odd number using: 5 7 3 8 9 2 (MO)	E. Symmetrical
		F. 987 532
		F. 9
		H. 53
		I. 15
		J. Asymmetrical
		K. 987 523

2.1	2.2	2.3	2.4	2.5
B	J	D	F	K

Question 3 Calculations:

[14]

3.1) $8\,932 \times 72 = A$

= 8932

= x 72

= 17 864 ✓

= 625 240 ✓

= 643 104

= _____

A = 643 104 ✓ (3)

3.2) $7\,258 \div 15 = B$

= 4 83 REM 13

= 15 / 7 258

= 6 000

= 1 258 ✓

= 1 200

= 58

= 45

= 13

B = 483 REM 13 ✓ (2)

3.3) $3\frac{8}{9} + 4\frac{5}{9} = C$

= 7 $\frac{13}{9}$ ✓

= _____

= _____

C = 8 $\frac{4}{9}$ ✓ (2)

3.4) $9,04 + 6,99 = D$

= 9,04

= + 6,99

= _____

D = 16,03 ✓ (1)

3.5) $7\frac{3}{6} - 3\frac{3}{5} = E$

= 4 $\frac{15}{30}$ - $\frac{18}{30}$ ✓

= 3 $\frac{30}{30}$ + $\frac{15}{30}$ - $\frac{18}{30}$

= 3 $\frac{45}{30}$ - $\frac{18}{30}$

= 3 $\frac{27}{30}$ ✓

E = 3 $\frac{9}{10}$ ✓ (4)

3.6) $8,05 - 4,2 = F$

= 8,05

= - 4,20

= _____

= _____

F = 3,85 ✓ (1)

Question 4: Factors and Prime numbers

[2]

4.1) 1; 3; 5; 9 and 45 are factors of 45. Which factor of 45 is missing from the list?

15

4.2) List all the prime numbers between 9 and 20

11, 13, 17, 19 (all or no marks)

Question 5: Fractions and decimals

[6]

5.1) Arrange the following decimal fractions in ascending order.

(1)

0,5 ; 0,25 ; 0,165 ; 0,056 ; 0,81 .

0,056 ; 0,165 ; 0,25 ; 0,5 ; 0,81

5.2) Complete the table below: (MO) (3)

Common Fraction	Decimal fraction
$\frac{1}{2}$	0.5
$\frac{15}{100}$	0.15
$\frac{1}{8}$	0.125

5.3) Complete the following using > < = .

(2)

5.3.1) $\frac{3}{4}$ > $\frac{5}{8}$

5.3.2) $\frac{3}{7}$ = $\frac{9}{21}$

Question 6: Conversions

[4]

6.1) Convert the following measurements.

6.1.1) 2, 2 kg = 2 200 g (LO)

6.1.2) 1, 05 m = 105 cm

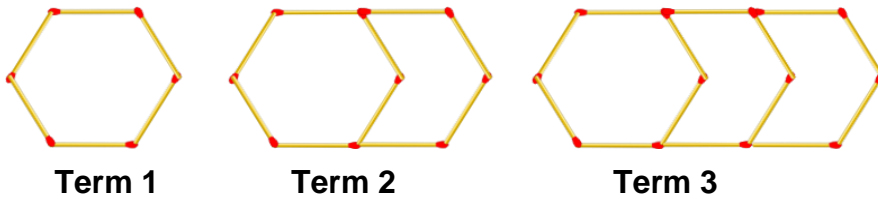
6.1.3) $25 \text{ m l} = 0, \underline{025} \text{ l}$ (MO)

6.1.4) $4 \frac{30}{250} \text{ l} = \underline{4 \ 120} \text{ ml}$

Question 7: Patterns

[3]

7.1) John uses matches to form a pattern:



7.1.1) Complete the table below:

(2)

Term(n)	1	2	3	4	6	<u>15</u>
Matches	6	10	14	18	<u>26</u>	62

7.1.2) Complete the rule : $\underline{\quad (n \times 4) + 2 \quad}$

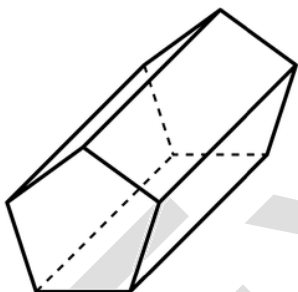
(1)

Question 8: 3-D Objects and Angles.

[6]

8.1) Fill in the table below based on the 3D Object below.

(2)



Number of Edges	Name of the Object
15	Pentagonal Prism

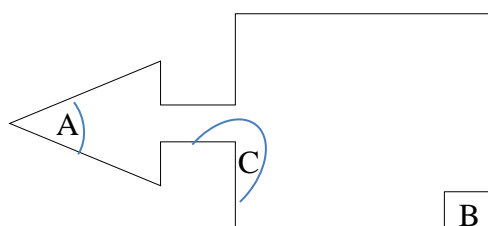
8.2) What 3-D object has 4 vertices, 6 edges and 4 faces?

(1)

Triangular Pyramid / tetrahedron

8.3) Fill in the names of angles A, B, C in the shape

(3)



A: Acute B: Right Angle C: Reflex

Question 9 : Time [3]

9.1) Rewrite in 12-hour clock time. (2)

9.1.1) 3 o' clock in the morning 3.00am / 3am 7.1.2) 14:45 2.45 pm

9.2) Calculate the following.

9.2.1) A movie ended at 19:15 and the movie was two hours and 55 minutes long. At what time did the movie start. (1)

19 : 15
- 2 : 55
= 16 : 20 ✓

Question 10: Word Problems (all working out needs to be shown) [14]

10.1) There are eight telephone poles in a street. The distance between the first and the second pole is 0.25 km, the distance between the first and the third is 0,50 km and the distance the first and fourth pole is 0.75km. What is the distance between the first and the eighth poles in km? (3)

R:

N: 0,25km $\sqrt{x 7 = A\sqrt{}}$ or 0,25 + 0,25 + 0,25 + 0,25 + 0,25 + 0,25 + 0,25 + 0,25 $\sqrt{= A\sqrt{}}$

W: _____

A: 1,75 km ✓

10.2) Sunshine Primary School is looking to hire the following items from the Carnival Company for their winter Carnival:

- R 12 780 Jumping castle.
- R 33 340 Tent
- R 15 678 Lighting and sound

If they hire all the items from the Carnival shop they will receive R1250 discount on the total cost. What will it cost to hire all the items? (4)

R:

N: $(12\ 780 + 33\ 340 + 15\ 678) - 1250 = B$ ✓

W:

_ 12 780		61 798	
+ 33 340		- 1 250	✓
_ 15 678		60 548	
61 798			✓

A) R60 548 ✓

10.3) A hot dog stand sold hot dogs for R12 each and made R 6 960 on Friday in total, calculate how many hotdogs were sold on Friday. (3)

R:

N: $6\ 960 \div 12 = C$ ✓

W:

_ 5 8 0			
_ 12 / 6 960			
_ - 6 000			
_ 960			✓
_ - 960			
_ 0			

A) 580 Hotdogs ✓

10.4 In five years' time Heidi will be exactly double the age of her brother. Her brother has just turned 3 years old. How old is Heidi today? (4)

R:

N: $(5+3) \times 2 - 5 = A$ ✓

W:
 $8 \times 2 = 16$ ✓
 $16 - 5 = 11$

A) She is 11 years old ✓