

**Southern Provincial Department of Education**  
**Year End Test - 2018**

**Grade 6**  
**Mathematics - I**

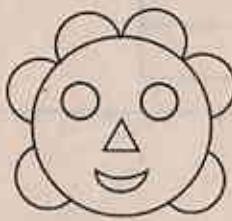
Name / Index No. ....

Time - 2 hours

**Paper I**

- Write down the answers for all the questions.**

(01)



How many circles are there in this picture.

(02) Write 6253281 in words.

(03) Draw a number line and mark -2 and 5 on it.

(04) Simplify.

(a)

$$\begin{array}{r} 124 \\ + 295 \\ \hline \end{array}$$

(b)

$$\begin{array}{r} 191 \\ - 77 \\ \hline \end{array}$$

(c)  $625 - 12 = \dots$

(d)  $283 - 27 = \dots$

(05) Write 19 as a product of 2 factors.

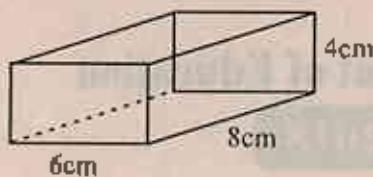
(06) What is the largest unit fraction.

(07) Simplify.  $0.24 + 1.37$

(08) State 2.8kg in grammes.

(09) Write 05<sup>th</sup> of August 2018 in standard form and 9.02p.m. in standard form.

(10) Draw two different faces in this solid with the measurements.



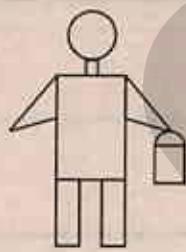
(11) Which number is represented by  

(12) Indicate "✓" if the statement is true or "✗" if it is false.

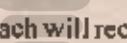
There are two right angles on a straight angle.	<input type="checkbox"/>
Obtuse angle and reflex angle are two equal angles.	<input type="checkbox"/>
Angles which are less than a right angle are acute angles.	<input type="checkbox"/>

(13) Fill in the blank.  $32 = 2^{\square}$

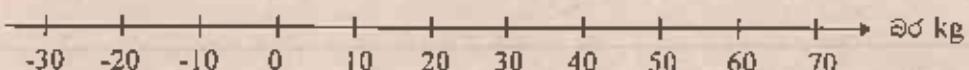
(14) How many rectangles in this figure. colour the rectangles.



Education  
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(15) How many pens each will receive if 714 pens divide among 17 students. 

(16) Mass of Sunil is 45kg and Nimal is 70kg. Mark it on the below numbers line.



(17) Which number is satisfy all the below features.

- This number is greater than 10 and below 50
- It is a square number.
- It is a triangular number

(18) Capacity of a water tank is 1000L. To fill  $\frac{1}{4}$  of the tank it took 30 minutes. Find the time it will get to fill  $\frac{3}{4}$  of the tank.

(19) 8 student are represented by the symbol  in a picture graph. How many students are represented by 

(20) Fill in the blank using  $>$  or  $<$

2.05 ..... 2.5

**Paper II**

• Write down the answers for the 1st question & 4 other questions.

(01) (i) In the number 6285,

a. What is the value represented by 8.  
b. What is the place value of 8.  
c. What is the place of 8.

(03 marks)

(ii) Write the number "two billion forty five million two hundred forty three thousand two" using digits in standard form.

(02 marks)

(02 marks)

(iii) Write 3 additional bonds of 10.

(iv) Without simplifying the below expressions state the answer is an even number or an odd number.

a.  $242 + 125$   
b.  $308 - 44$   
c.  $28 \times 42$   
d.  $625 + 5$

(02 marks)

(02 marks)

(02 marks)

(v) Write down the first five square numbers.

(vi) Give reasons why number "1" isn't a prime number.

(vii)  ..... Draw the next pattern.

(02 marks)

(viii) Which number pattern is represented in the above (vii) dot pattern.

(01 mark)

(02) (i) Fill in the blanks using  $>$ ,  $<$

a.  $\frac{1}{8} \dots \frac{1}{5}$    b.  $\frac{2}{7} \dots \frac{3}{7}$    c.  $\frac{3}{4} \dots \frac{1}{2}$    d.  $\frac{2}{3} \dots \frac{5}{6}$  (04 marks)

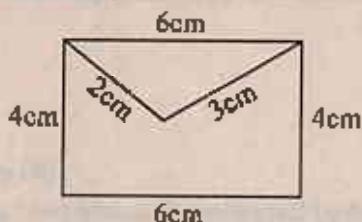
(ii) Simplify the following fractions.

a.  $\frac{3}{8} + \frac{1}{2}$    b.  $\frac{2}{12} - \frac{2}{3}$  (03 marks)

(iii) A father give  $\frac{1}{2}$  of his land to his wife,  $\frac{1}{3}$  to his son and he keep the remaining portion for him. Who received the largest portion of the land. (04 marks)

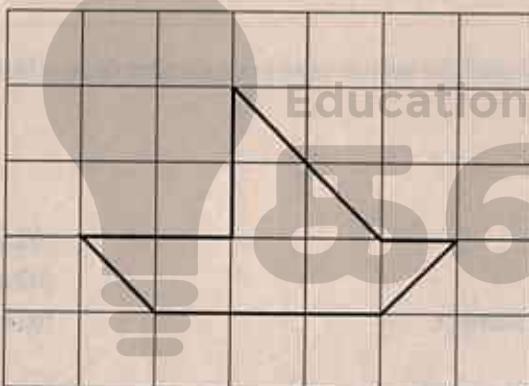
(03) (i) Write 3 equivalent ratios to  $2 : 3$  (02 marks)  
 (ii) To make a statue 6 pans of cement & 2 pans of sand are mixed together by sanuja.  
     a. Write the above information as a ratio. (02 marks)  
     b. Write the ratio in the simplest form. (03 marks)  
 (iii) Expand  $3^3$  find the value. (03 marks)  
 (iv) Write 256 as a power of 2. (03 marks)

(04) (i) You know that length, breadth, depth, thickness also indicate lengths. Write 02 examples for situations where information is given using each. (04 marks)  
 (ii) 2m 20cm  
     a. State in cm. (02 marks)  
     b. State in m. (02 marks)  
 (iii) find the perimeter of the below figure.



(02 marks)

(iv) The area of each square is  $1\text{cm}^2$  of the below square grid. Find the area of the shaded figure in  $\text{cm}^2$ . (02 marks)



(02 marks)

(05) (i) Write the type of each angle indicate in this figure. (07 marks)

1. ....  
 2. ....  
 3. ....  
 4. ....  
 5. ....  
 6. ....  
 7. ....

(ii) Name the solid with 6 faces, 8 vertices and 12 edges. (01 mark)  
 (iii) Draw a parallelogram & a trapezium and write their features. (03 marks)

(06) (i) Write the number of books in sathira's bag using an algebraic symbol. (02 marks)

(ii) There are 5 more books in Nimasha's bag than in sathira's bag. Build up an algebraic expression for the number of books in Nimasha's bag. (02 marks)

(iii) There are 2 books less in sehas's bag than in sathira's bag. Build up an algebraic expression for the number of books in sehas bag. (02 marks)

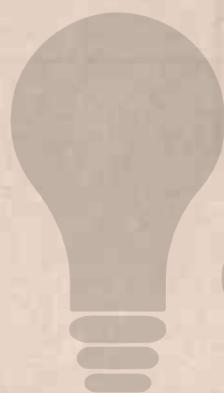
(iv) If  $P = 12$  find the value of each algebraic expression.

- $P + 7$  (01 mark)
- $P - 7$  (02 marks)
- $5 + P$  (02 marks)

(07) The mode of transport used by Grade 6 students in Balithi class to come to the school is given below.

Mode of transport	Number of students
By bus	14
By school vans	12
By foot	08
By private vehicles	06
By foot cycle	05

- Represent this data in a picture graph. (05 marks)
- Which mode is used by the most number of students. (02 marks)
- Finds the total number of students in the class. (01 mark)
- Write the number of students coming by school vans as a fraction of the total number of students. (03 marks)



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