

SOUTHERN PROVINCIAL DEPARTMENT OF EDUCATION

MID YEAR TEST - 2019

GRADE 6

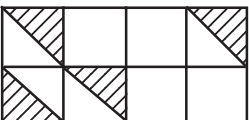
MATHEMATICS

Name/ Index No :-

Time : 2 Hours

Part I

1 Answer all the questions. (2 marks are given to each correct answer.)

(1)  Write down the shaded region as a fraction,

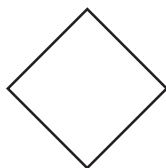
(2) Select the largest fraction from $\frac{1}{12}$ and $\frac{1}{3}$

(3) Write down 2 factors of 5.

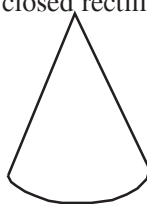
(4) Write down 2 multiples of 7 between 20 and 30.
 ,

(5) 32 If this number is divisible by 2 without a remainder. Write down a suitable digit which is greater than 6 for the blank.

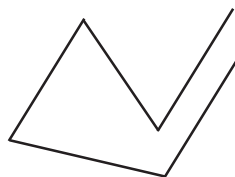
(6) Select and underline the closed rectilinear plane figure out of the figures given below.



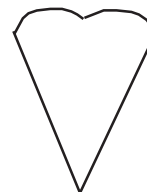
(i)



(ii)



(iii)



(iv)

(7) How many $\frac{1}{10}$ are there in 1?

(8) What is the place value of 4 of the number 0.45.....

(9) Write down $\frac{28}{100}$ as a decimal.

(10) Fill in the blanks using $<$ or $>$ 0.3 0.32

(11) (a) What is the sum of the digits from 1 to 5?

(b) Which triangular number is it?

(12) If the below statements are correct put (3) sign and if incorrect put (X).

(a) 1 is a prime number.

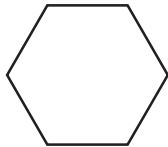
(b) All the square numbers are composite numbers.

(13) Fill in the blanks using suitable values.

(i) mm = 1cm

(ii) m = 1km

(14)



All 6 sides are equal in length of this figure.
If the perimeter of it is 30cm, find the length of a side.

.....

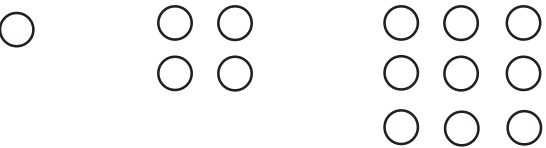
(15) Write 18 as a product of prime numbers.

.....
.....

(16) Round off 52 to the nearest 10.

(17) Write all the prime numbers between and 10.

.....

(18) 

.....

Draw the next pattern.

(19) 24 is a multiple of 8. What is the next multiple of 8.

(20) What is the smallest number which is a multiple of all the numbers 2, 3, 4.

.....

Part II

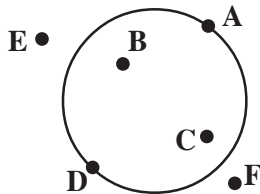
Write down the answers for only 5 questions.

- (1) (a) In a container there are 5 red colour buttons and 4 blue colour buttons.
- (i) Write down the red colour buttons as a fraction out of the total number of buttons. (01 m.)

- (ii) Write an equivalent fraction to the above fraction which the numerator is 10. (01 m.)

- (b) Fill in the blanks using a suitable sign <, > or =
- (i) $\frac{5}{12}$ $\frac{11}{12}$ (01 m.)
- (ii) $\frac{3}{8}$ $\frac{5}{16}$ (01 m.)
- (c) Find the value.
- (i) $\frac{3}{7} + \frac{2}{7} =$ (01 m.) (ii) $\frac{8}{12} - \frac{2}{12} =$ (01 m.)
- (iii) $\frac{2}{3} + \frac{1}{6} =$ (02 m.) (iv) $\frac{15}{21} - \frac{2}{3} =$ (02 m.)
- (d) 45321687
- (i) Write down this number in standard form (01 m.)
- (ii) Write it in words.
 (01 m.)

- (2) (a) Complete the table by writing the place of the points A,B,C,D,E,F.



Place	Point
(i) On the circle	A,
(ii) Inside the circle,
(iii) Outside the circle	F,

(02 m.)

- (b) Fill in the blanks using suitable values.

- (i) 70 mm = cm
- (ii) 8 cm 4 mm = mm
- (iii) 675 m = cm
- (iv) 125 cm = m
- (v) 20375 m = km (05 m.)

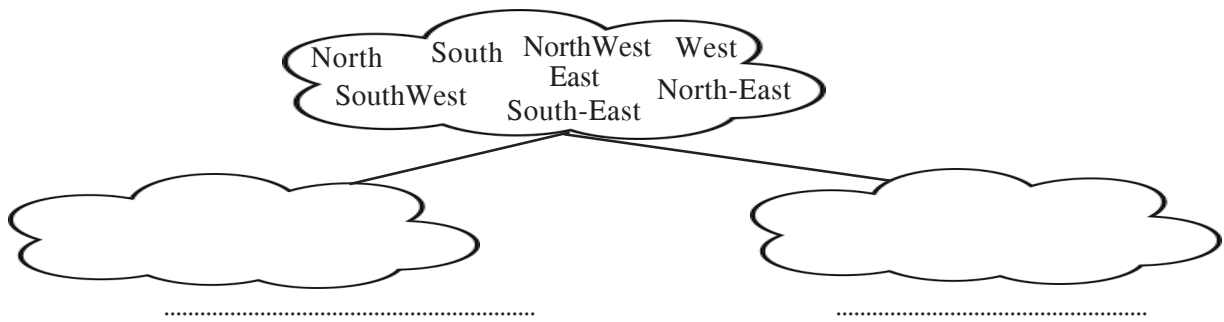
- (c) Match.

- | |
|-----------------|
| (i) 115 seconds |
| (ii) 45 minutes |
| (iii) 2 hours |
| (iv) 2 days |
| (v) 72 hours |

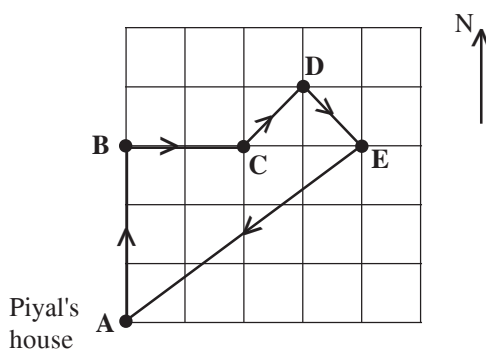
- | |
|-------------------------|
| A. 120 minutes |
| B. 3days |
| C. 2 minutes 55 seconds |
| D. 2700 seconds |
| E. 48 hours |

(05 m.)

- (3) (a) (i) Separate the below things in to two groups. (04 m.)
 (ii) Write down a suitable name for each group. (02 m.)



- (b) The square grid represents few places located on a village. Piyal's house is represented by the letter "A". He went out from the house and came back to the house through the given path represented using arrow heads. Complete the following table using the directions.

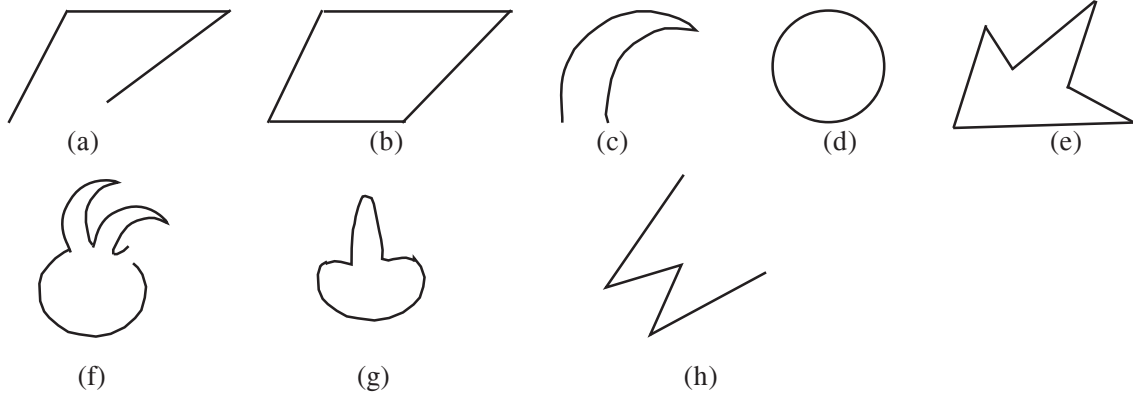


Path	Direction
From A to B North.....
From B to C
From C to D
From D to E
From E to A

- (c) Fill in the blanks using suitable words.
 (i) To identify whether a plane is horizontal we use

(ii) To identify whether a plane is vertical we use

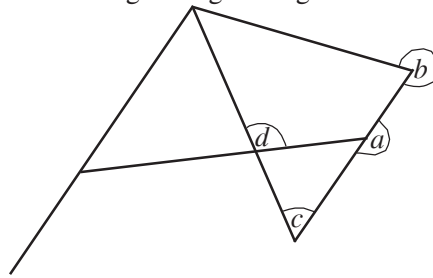
- (4) Complete the table given below using the letters of the following plane figures.



Closed rectilinear plane figures	Open rectilinear plane figure	Closed curved line plane figures	Open curved line plane figures

(08 m.)

(b) Name the angles in given figure.



- a -
- b -
- c -
- d - (04 m.)

(5) (a) Write down the below fractions as decimals.

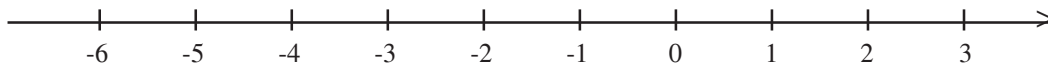
(i) $\frac{6}{10} = \dots\dots\dots$ (ii) $\frac{35}{100} = \dots\dots\dots$ (02 m.)

(b) Write down the below numbers in ascending order.
 0.2, 0.5, 0.25, 1.35 (02 m.)

(c) Find the value.

(i)	(ii)
$\begin{array}{r} 0.76 \\ + 0.03 \\ \hline \hline \end{array}$	$\begin{array}{r} 3.61 \\ - 1.63 \\ \hline \hline \end{array}$
	(04 m.)

(d) (i) Mark -4 and 2 on the number line.



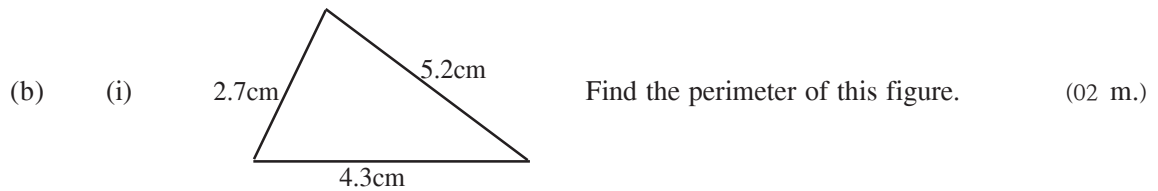
(ii) Write down all the integers between -4 and 2 in ascending order.
 (2 m.)

(6)

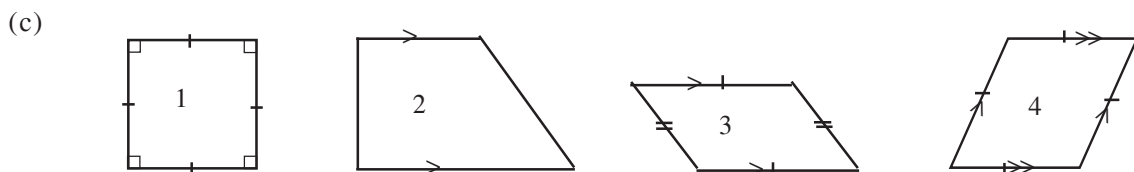
1	5	9	13	17	21	
2	6	10	14	18	22	25
3	7	11	15	19	23	
4	8	12	16	20	24	

- (i) From the numbers given above write down the even numbers between 16 and 25.
 (02 m.)
- (ii) Write down the odd numbers from 10 to 15.
 (02 m.)
- (iii) Select and write down 4 prime numbers from the numbers given above.
 (02 m.)
- (iv) Out of the number given above what is the smallest composite number.
 (02 m.)
- (v) Write down 4 triangular numbers from the numbers given above.
 (02 m.)
- (vi) Find the value.
 $96 \times 9 = \dots\dots\dots$ (02 m.)

- (7) (a) Of the number 32.451
- (i) Write the place value of the digit 5
 (02 m.)
- (ii) Represent the above numbers on an abacus. (02 m.)



- (ii) The total mass of a box with tea leaves is 8kg 250g. The mass of tea leaves in that box is 7kg 300g, Find the mass of the box. (02 m.)



Complete the below table by naming the above figures.

Number of the figure	Name
1
2
3
4

(04 m.)

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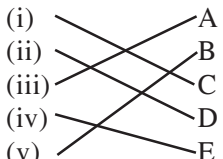
Grade 6
MATHEMATICS - ANSWER GUIDE

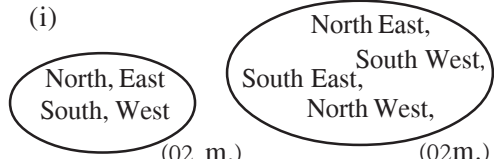
Part I

- | | | | |
|----------------------------------|---|---------------------------------|---------------------------------------|
| (1) $\frac{4}{16} = \frac{1}{4}$ | (7) 10 | (12) (a) 7
(b) 7 | (16) 50 |
| (2) $\frac{1}{3}$ | (8) $\frac{1}{10}$ | (13) 10mm = 1cm
1000 m = 1km | (17) 2, 3, 5, 7
o o o o
o o o o |
| (3) 1, 5 | (9) 0.28 | (14) $\frac{30}{6} = 5cm$ | (18) o o o o
o o o o |
| (4) 21, 28 | (10) $0.3 < 0.32$ | (15) $18 = 2 \times 3 \times 3$ | (19) 32 |
| (5) 8 | (11) $1 + 2 + 3 + 4 + 5$
15
5 th triangular number | | (20) 12 |

Part II

- (1) (a) (i) $\frac{5}{9}$ (01 m.)
(ii) $\frac{5}{9} = \frac{10}{18}$ (01 m.)
- (b) (i) < (01 m.)
(ii) > (01 m.)
- (c) (i) $\frac{5}{7}$ (01 m.)
(ii) $\frac{10}{12}$ or $\frac{5}{6}$ (01 m.)
(iii) $\frac{4}{6} + \frac{1}{6} = \frac{5}{6}$ (02 m.)
(iv) $\frac{15}{21} - \frac{14}{21} = \frac{1}{21}$ (02 m.)
- (d) (i) 45 321 687
(ii) Forty-five million three hundred twenty one thousand six hundred eighty seven. (02 m.)

- (2) (a) (i) A
(ii) B, C
(iii) E, F (02 m.)
- (b) (i) 7cm
(ii) 84mm
(iii) 67500cm
(iv) 1.25 m
(v) 20.375 km (01 mark for each)
- (c) (i) 
(ii)
(iii)
(iv)
(v) (05 m.)

- (3) (a) (i) 
(02 m.) (02m.)
- Main directions Sub directions
(01 m.) (01 m.)
- (b) From B to C → East
From C to D → North East
From D to E → South East
From E to A → South West
(01 mark for each)

- (c) (i) Spirit level.
(ii) Plumb. (01 m.)
-
- (4) (a) One mark for a correct answer
- (b) a - Straight angle.
b - Reflex angle.
c - Acute angle.
d - Obtuse angle.
(01 mark for each)
-
- (5) (a) (i) 0.6
(ii) 0.35 (01 mark for each)
- (b) 0.2, 0.25, 0.5, 1.35
- (c) (i) 0.79
(ii) 1.98
- (d) (i) Marking points on the picture.
(01 mark for each)
(ii) -3, -2, -1 (02 m.)
-
- (6) (i) 18, 20, 22, 24 (02 m.)
(ii) 11, 13, 15, 17, 19 (02 m.)
(iii) Any 4 prime numbers. (02 m.)
(iv) 4
(v) 1, 3, 6, 10, 15 any 4 (02 m.)
(vi) $96 \times 9 = 864$ (02 m.)

- (7) (a) (i) $\frac{1}{100}$
(ii) For correct figure (02 m.)
- (b) (i) 12.2cm
(ii) $\begin{array}{r} \text{kg} \quad \text{g} \\ 8 \quad 250 \\ -7 \quad 300 \\ \hline 0 \quad 950 \\ \hline 950\text{g} \end{array}$ (02 m.)
- (c) 1 - Square.
2 - Trapezium
3 - Parallelogram.
4. Rhombus
(01 mark for each = 4)