"Thurstan College, being unshaken amidst the COVID 19 challenges"

Series of Supportive Activities

Grade 6 - Mathematics

THURSTAN COLLEGE

COLOMBO 07

Thurstan College, being unshaken amidst the COVID 19 challenges
Series of Supportive Activities

Concept, Guidance & Supervision - Principal Mr. Pramuditha Wickramasinghe

Implementation - Deputy Principal (Education Development)
Mrs. N.G.H. Samanthini
-Assistant Principal (Grade6-13)
Mr. M.C.Jayasekara
-Grade Head (Grade 6) Mrs. Anoma Gamage

Preparation of Activity Books

- Grade 6 (Mathematcs) - Mrs. Chathuri Wathsala
- Grade 7 (Mathematcs) - Mrs. Chathuri Wathsala
- Grade 8 (Mathematcs) - Mrs. Dilini Lankesha
- Grade 9 (Mathematcs) - Mrs. Dilini Lankesha
- Grade 10(Mathematcs) - Mrs. Aruni Wijesundara
- Grade 11 (Mathematcs) - Mrs. N. G. M. D. Ranmali

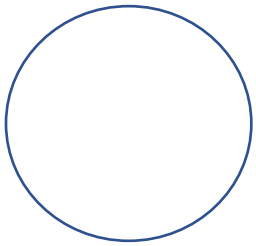
Grade 6 mathematics - Activity Book First term

Circle

1. Write 5 items that you can use to draw circles in the classroom.

(i) ……..
(ii) ……..
(iii) ……..
(iv) ……..
(v) ……..

2. Mark a tick in the circle
   Mark a cross outside the circle
   Mark a dot on the circle and name, it as P.



3. Draw a circular design using a 5 rupee coin in the space provided.

Place value

1. Write 2 types of number systems used to write numbers.

(i) …….
(ii) …….....

2. Write the list of numbers which is used to fill one position.

……..

3.

(i) Value represented by the digit in the ones place is……
(ii) Value represented by the digit in the ten place is …… …
(iii) Value represented by the digit in the hundreds place is……

4. Consider the number 94753,

Position of each digit

(i) Name of the position of the digit 3

(ii) Name of the position of the digit 4

(iii) Name of the position of the digit 5

(iv) Name of the position of the digit 7

(v) Name of the position of the digit 9

Value represented by each digit

(i) Value represented by 3

(ii) Value represented by 4

(iii) Value represented by 5

(iv) Value represented by 7

(v) Value represented by 9

Place value of each digit

(i) Place value of 3

(ii) Place value of 4

(iii) Place value of 5

(iv) Place value of 7

(v) Place value of 9

5. Complete the following table.

Number	Digit	Name of the position	Value represented by each digit
9608	6		
834	3		
540	0		
4744	7		
53501	3		
78923	7		
29	9		

Periods of numbers

6. Write the following numbers in standard form after dividing it into periods.

(i) 32534

(ii) 43045

(iii) 5362104

(iv) 4822135

(v) 342590

(vi) 902043218

(vii) 12365412

(viii) 800800800

Reading numbers

**dividing the number into tis periods makes it easy to read.

7. Write the following numbers in words.

(i) 273 105

(ii) 2 485 467

(iii) 47 859 172

(iv) 2 034 172 756

(v) 957 284 128

(vi) 2 003 012 179

8. Write the following numbers given in words in standard form.

(i) Forty eight thousand six hundred twenty five

(ii) Three hundred twenty four thousand two hundred thirty one

(iii) Tree million four hundred ninety eight thousand fifty one

(iv) Six billion two hundred twenty four thousand five

(v) Five billion five million five thousand five

(vi) Two hundred million three hundred

Mathematical operations on whole numbers

Addition

1. Simplify the following. (show the calculations)

(i) 27+31

(ii) 34+58

(iii) 632+529

(iv) 437+872

(v) 5302+2423

(vi) 6629+8325

(vii) 7827+1345

(viii) 2205+4715

(ix) 25394+5241

(x) 37+429+65304

2. A seller received an income of 5060 in the first week, 3460 in the second week, 7500 in the third week and 5320 in the fourth week of a certain month. Find his total income during this month.

3. Number of coconuts plucked from a certain estate during six months in a year to the nearest 10 fruits is given below. Find the total number of coconuts plucked during this year.

Month	Coconuts plucked
February	180
April	120
June	200
August	170
October	220
December	250
Total number of coconuts	

Subtraction

1. Simplify the following. (show the calculations)

(i) 436-123

(ii) 4327-1269

(iii) 7267-2659

(iv) 4923-1668

(v) 7143-5478

(vi) 3465-1772

(vii) 5764-2987

(viii) 4327-1659

2. The total number of students in a mixed school is 5350. If there are 2538 girls, find the number of boys in the school.

3. A seller took 450 coconuts to the market and at the end of the day there were 38 coconuts remaining with him. Find the number of coconuts sold.

Multiplication

1. Simplify the following.

(i) $7 \times 10 =$
(ii) $31 \times 100 =$
(iii) $9 \times 1000 =$
(iv) $75 \times 1000 =$
(v) $284 \times 100 =$
(vi) $37 \times 1000 =$
(vii) $413 \times 10 =$
(viii) $318 \times 100 =$

2. Simplify.(show the calculations)

(i) $8 \times 3 =$
(ii) $9 \times 5 =$
(iii) $8 \times 6 =$
(iv) $87 \times 6 =$

(v) $73 \times 7 =$

(vi) $725 \times 8 =$

(vii) $679 \times 7 =$

(viii) $348 \times 6 =$

(ix) $6078 \times 5 =$

(x) $2349 \times 4 =$

(xi) $58 \times 13 =$

(xii) $64 \times 36 =$

(xiii) $157 \times 64 =$

(xiv) $347 \times 25 =$

(xv) $308 \times 72 =$

(xvi) $2015 \times 49 =$

3. In a hall, there are 24 chairs in one row and there are 65 such rows. Find the total number of chairs in the hall.

4. Price of a raw food pack is Rs 2075.00. find the price of 55 such packs.

Division

1. Simplify.

(i) $50 \div 10=$

(ii) $1300 \div 100 =$

(iii) $7000 \div 1000 =$

(iv) $2500 \div 10 =$

(v) $2500 \div 100 =$

(vi) $7800 \div 10 =$

(vii) $23000 \div 1000 =$

(viii) $520 \div 10 =$

2. Simplify the following. (show the calculations)

(i) $475 \div 6 =$

(ii) $213 \div 5 =$

(iii) $547 \div 7 =$

(iv) $416 \div 13 =$

(v) $625 \div 25 =$

(vi) $2244 \div 17 =$

(vii) $3784 \div 21 =$

(viii) $7843 \div 12 =$

(ix) $1780 \div 15 =$

(x) $4678 \div 24 =$

3. A toffee bag contains 200 toffees. And there are such 4 bags. If these toffees are to be distributed among 25 students find the number of toffees each student get.

Time

Writing time in standard form

Time should represent in **HH:MM:SS**

1. Complete the following table.

Time in 12-hour clock	Time in 24-hour clock
7.05 am	
1.30 pm	
6.45 am	
4.15 pm	
	08:20
	17:35
	10:15

Relationship between measuring units of time

1 minute = 60 seconds

2. Convert the following times given in minutes to seconds.

(i) 2 minutes = $2\times60\ seconds = 120$ seconds
(ii) 5 minutes =
(iii) 20 minutes =
(iv) 35 minutes =
(v) 48 minutes =

3. Convert the following times given in seconds to minutes.

(i) 60 seconds = 1 minute
(ii) 120 seconds = $120 \div 60\ minutes$ = 2 minutes
(iii) 240 seconds =
(iv) 360 seconds =
(v) 1200 seconds =
(vi) 1800 seconds =

(i) 150 seconds = 120 seconds + 30 seconds
= 2 minutes 30 seconds
(ii) 125 seconds =

(iii) 160 seconds =
(iv) 210 seconds =
(v) 350 seconds =
(vi) 475 seconds =

1 hour = 60 minutes

(i) Convert the following times given in hours to minutes.
(i) 2 hours = 2×60 minutes $=$ 120 minutes
(ii) 5 hours =
(iii) 10 hours =
(iv) 24 hours =
(v) 18 hours =
(vi) 48 hours =

(ii) Convert the following times given in minutes to hours.

(i) 60 minutes = 1 hour
(ii) 120 minutes = $120 \div 60$ hours = 2 hours
(iii) 180 minutes =
(iv) 300 minutes =
(v) 720 minutes =
(vi) 2400 minutes =
(vii) 2700 minutes =

(i) 100 minutes = 60 minutes + 40 minutes
1 hour 40 minutes
(ii) 130 minutes =
(iii) 250 minutes =
(iv) 320 minutes =
(v) 450 minutes =
(vi) 515 minutes =

1 day = 24 hours

1. Convert the following times given in days to hours.

(i) 2 days = 2×24 minutes $=$ 48 minutes
(ii) 3 days =
(iii) 5 days =
(iv) 8 days =
(v) 10 days =
(vi) 15 days =

2. Convert the following times given in hours to days.
(i) 24 hours = 1 day
(ii) 48 hours = 48 $\div$ 24 days= 2 days
(iii) 72 hours =
(iv) 96 hours =
(v) 144 hours =
(vi) 216 hours =
(vii) 360 hours =

(i) 30 hours = 24 hours + 6 hours

= 1 day 6 hours

(ii) 40 hours
(iii) 75 hours
(iv) 125 hours
(v) 154 hours
(vi) 190 hours
(vii) 350 hours

Addition and subtraction of time.

Addition

(i) 5 minutes 20 seconds + 4 minutes 30 seconds

(ii) 5 minutes 30 seconds + 6 minutes 40 seconds

(iii) 10 minutes 30 seconds + 13 minutes 45 seconds

(iv) 20 hours 20 minutes + 12 hours 30 minutes

(v) 3 hours 50 minutes + 4 hours 40 minutes

(vi) 15 hours 45 minutes + 8 hours 30 minutes

(vii) 7 hours 40 minutes + 8 hours 20 minutes

(viii) 13 days 10 hours + 5 days 12 hours

(ix) 11 days 20 hours + 15 days 4 hours

(x) The timings of 4 athletes who participated in a $4\times100m$ relay are given below. Find the total time taken by the athletes to finish the event.

Subtraction

(i) 5 minutes 30 seconds - 2 minutes 15 seconds

(ii) 8 minutes 30 seconds - 4 minutes 40 seconds

(iii) 12 hours 15 minutes - 9 hours 34 minutes

(iv) 6 hours 30 minutes - 5 hours 20 minutes

(v) 10 days 20 hours - 7 days 12 hours

(vi) 24 days 7 hours - 13 days 10 hours

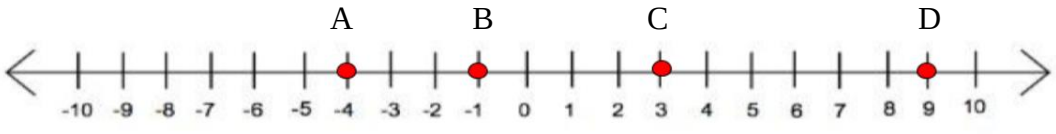
Elapsed time

Complete the following table.

Starting time	Ending time	Elapsed time
8.05 am	9.00 am	
9.00am	9.25 am	
9.25am	10.30 am	
10.30 am	2.00pm	
2.00 pm		45 minutes
	3.15 pm	30 minutes
3.15 pm		1 hour 15 minutes

Number line

1. Write the numbers marked in this number line.



A =

B =

C =

D =

2. Represent P = 3, Q = -2, R = 0 on the number line.

3. Write down the following inequalities in words.

(i) $0 < 3$

(ii) $-3 < 0$

(iii) $1 > -1$

(iv) $1 < 5$

(v) $20 > 10$

(vi) $-10 < 10$

4. Write down the following integers in ascending order.
5, -3, 0, 2, -1

5. Use the sign <,> appropriately.

(i) 0……-1

(ii) 5……7

(iii) 2……-2

(iv) -5……..-8

(v) -3……7

6. Write down all the integers between -2 and 5.

7. Write down all the positive integers between -5 and 5.

Rounding off

1. Round off the following numbers to the nearest ten.

(i) 55
(ii) 33
(iii) 29
(iv) 66
(v) 99
(vi) 54
(vii) 50

2. Masses of 2 students are 26kg and 35kg. Round off these masses to nearest 10.

   (i) Find the difference of these 2 masses.

3. The number of chairs in a hall when rounded off to nearest 10 was 130.
   (i) Write down the maximum number of chairs it can take.

   (ii) Write down the minimum number of chairs it can take.

   (iii) After removing nine chairs from the hall the rounded off value didn't change. And it's still 130. Write the number of chairs which were there before removing any.

Angles

1. Write down 4 places where you can see right angles.

2. Draw the following angles in the space provided.

(i) Acute angle

(ii) Obtuse angle

(iii) Right angle

(iv) Straight angle

(v) Reflex angle.

Directions

1. Write down the main 4 directions.

2. Write down the 4 sub directions.

3. Answer the following questions by looking at the map on the next page.

(i) …….is towards North of Anuradhapura.

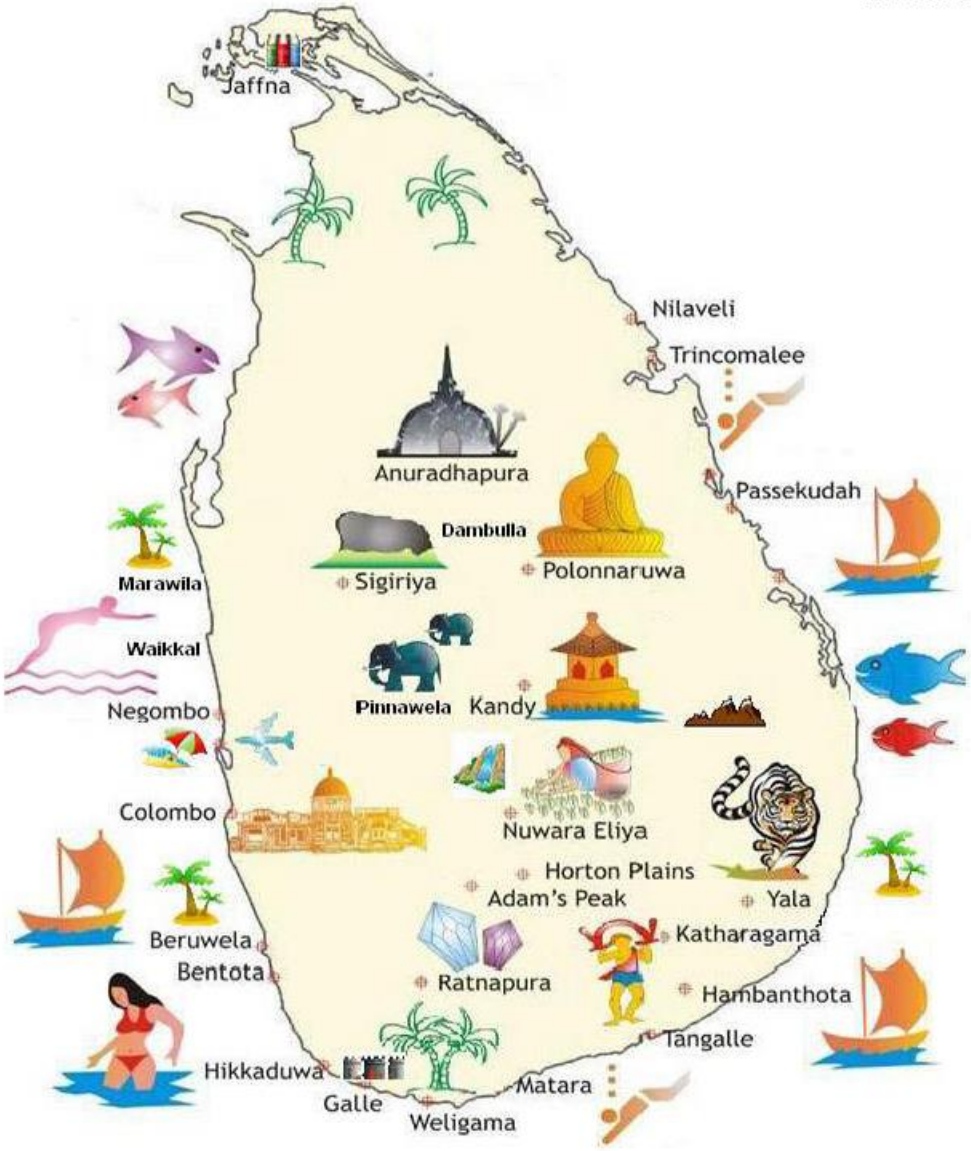
(ii) Trincomalee is towards ……of Anuradhapura.

(iii) Maravila is in ……..of Sigiriya.

(iv) ……..is in south of Polonnaruwa.

(v) Weligama is towards ……of Matara.

Annex 1


Jaffna
Nilaveli
Trincomalee
Anuradhapura
Passekudah
Dambulla
Polonnaruwa
Marawila
Sigiriya
Waikkal
Pinnawela
Kandy
Negombo
Colombo
Nuwara Eliya
Horton Plains
Adam's Peak
Yala
Beruwela
Bentota
Katharagama
Ratnapura
Hambanthota
Tangalle
Hikkaduwa
Galle
Matara
Weligama