

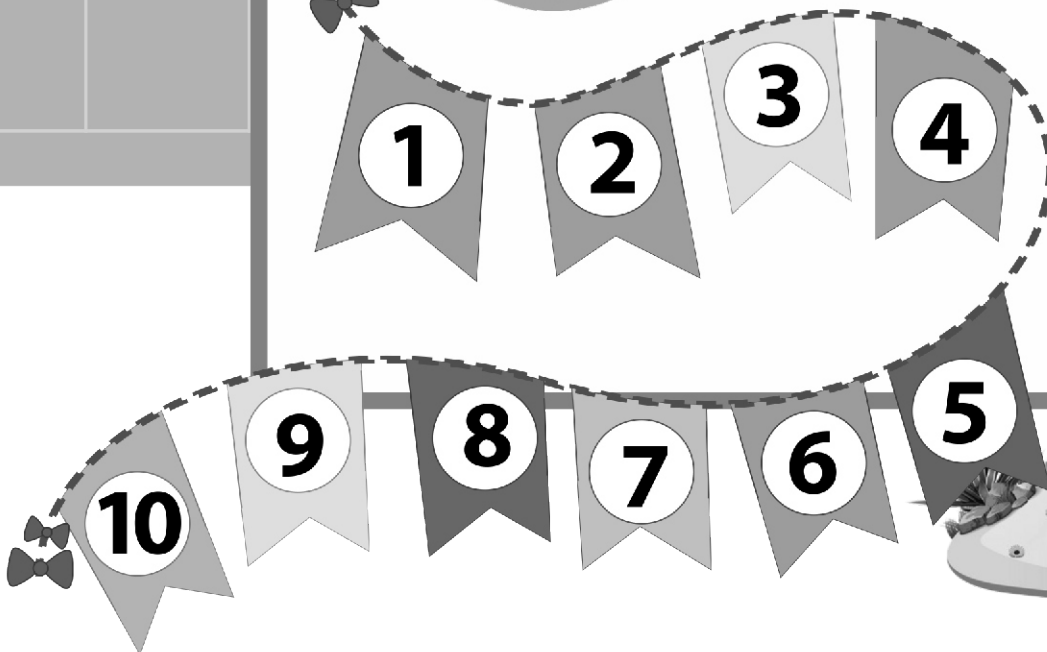
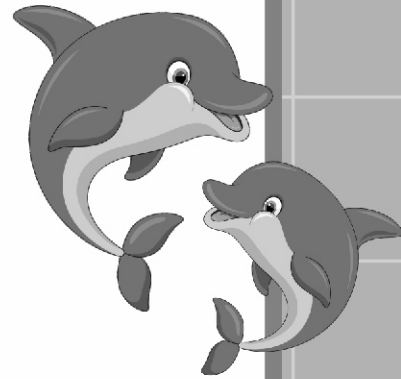
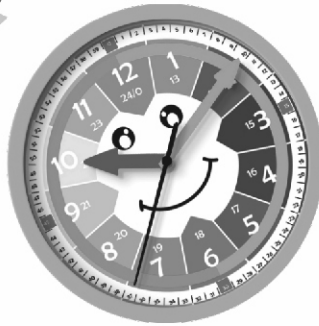
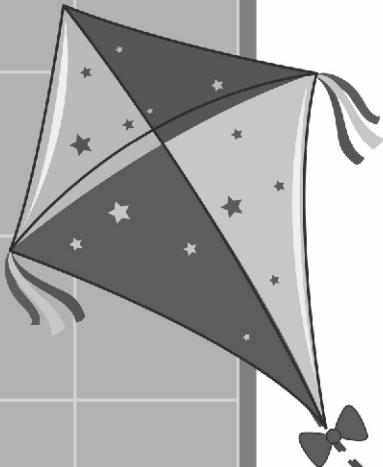


$$3 - 2 = 1$$



Foundation Mathematics

1



1. Pre-Number Concept

Task-1 : 1. taller 2. on 3. in between 4. bigger 5. near to **Task-2 :** Do it yourself **Task-3 :** Do it yourself **Task-4 :** Do it yourself **Task-5 :** Do it yourself **Task-6 :** Do it yourself **Task-7 :** Do it yourself **Task-8 :** Do it yourself



2. Fun with Numbers (0 to 20)

Task-1 : 1. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

Task-2 : 1. 8, 6, 0 2. 3, 0, 5 3. 0, 6, 7

Learning Target 2.1 :

- | | | |
|--------------|--------------|--------------|
| 1. 2 (two) | 2. 7 (Seven) | 3. 9, (Nine) |
| 4. 1 (One) | 5. 5 (Five) | 6. 3 (Three) |
| 6. 6 (Six) | 8. 4 (Four) | 9. 8 (Eight) |
| 10. 10 (Ten) | | |

Task-3 :

1. 1, 3, 4, 7, 8, 10
2. (a) (ii), (b) (iv), (c) (v), (d) (i), (e) (iii)

Learning Target 2.2 :

1. 15, 17, 18 2. 5, 7, 10 3. 11, 12, 14

Just 4 fun—Do it yourself

Learning through Puzzle : 8

Learning Target 2.3 :

1. (a) 1 (b) 10 (c) 11 (d) 19 (e) 19
(f) 15
2. (a) < (b) > (c) < (d) > (e) <
(f) < (g) > (h) <
3. (a) > (b) > (c) < (d) < (e) =
(f) = (g) > (h) =
4. Do it yourself 5. Do it yourself

Ordering of Numbers

Ascending Order -

- (a) 5, 10, 13, 15 (b) 1, 4, 13, 16 (c) 3, 10, 11, 12

Descending Order -

- (a) 16, 14, 11, 3 (b) 14, 12, 10, 8 (c) 19, 13, 8, 4

Task-4 : Pinky, Raj, Ram, Rahul, Bubby, Sonya, Monu

Facts of 10 -

$10 + 0 = 10,$

$7 + 3 = 10,$

$0 + 10 = 10,$

$3 + 7 = 10,$

$9 + 1 = 10,$

$6 + 4 = 10,$

$1 + 9 = 10,$

$4 + 6 = 10,$

$8 + 2 = 10,$

$5 + 5 = 10,$

$2 + 8 = 10,$

$5 + 5 = 10$

Catch the Concept :

1. 3, 4, 6, 7, 9, 12, 14

2. (a) 11 (b) 12 (c) 7 (d) 9

3. (a) Thirteen, (b) Fifteen, (c) Twelve,
(d) Eleven, (e) Eighteen

4. Ascending Order - 1, 9, 10, 16
Descending Order - 15, 11, 7, 6

Apply Your Mind!

1. 6

2. (b) Draw 6 balls (b) Draw 7 kites

3. 17

4. Delete 4 kites



3. Addition and Subtraction (Up to 20)

Task-1 :

1. (a) 7 (b) 5 (c) 16 (d) 8 (e) 14

(f) 15 (g) 15 (h) 17 (i) 16

2. 8, 12, 17

Task-2 :

1. 17 2. 17 3. 14 4. 18

Task-3 :

1. 2 2. 5 3. 10 4. 7 5. 9

6. 10 7. 3

Just For Fun : Do it yourself.

Task-4 :

1. (a) 5 (b) 6 (c) 6 (d) 10 (e) 4

(f) 8

2. (a) 4 (b) 3 (c) 10 (d) 7 (e) 15

(f) 8 (g) 5 (h) 9 (i) 6 (j) 6

(k) 10 (l) 7 (m) 9 (n) 7 (o) 9

Learning Target 3.1 :

1. (a) 6 (b) 8 (c) 4 (d) 7 (e) 9
 (f) 9 (g) 7 (h) 9 (i) 6
 2. (a) 6 (b) 6 (c) 8 (d) 3 (e) 7
 (f) 14 (g) 16 (h) 12 (i) 10 (j) 15
 (k) 10 (l) 8

Task-5 :

1. 4 2. 3 3. 0 4. 6

Learning Target 3.2 :

1. (a) 4 (b) 3 (c) 7 (d) 9
 2. $8 - 0 = 8$, $8 - 1 = 7$, $8 - 2 = 6$, $8 - 3 = 5$, $8 - 4 = 4$,
 $8 - 5 = 3$, $8 - 6 = 2$, $8 - 7 = 1$, $8 - 0 = 8$

Learning through puzzle : 2, 3

3. (b) $8 + 7 = 15$, $7 + 8 = 15$, $15 - 8 = 7$, $15 - 7 = 8$

Task-6 :

1. 5 2. 2 3. 0 4. 4 5. 4
 6. 9 7. 0

Learning through puzzle :

$$\square = 10$$

$$\triangle = 5$$

Learning Target 3.3 :

1. 2 2. 6 3. 4 4. 3 5. 2
 6. 5 7. 2 8. 3 9. 5

Catch the Concept :

1. (a) 7 (b) 5 (c) 8
 2. (a) 2 (b) 1 (c) 0
 3. (a) (iii) (b) (iv) (c) (v) (d) (ii) (e) (i)

Apply Your Mind!

1. Do it yourself 2. Do it yourself
 3. Saumya, 7 4. (d)
 5. (a) (i) (iii) (ii) (iv) (b) $Q < S < R < P$

□

4. Fun with Numbers (21 to 50)

Task-1 : 1. 23, 24, 25, 28, 29, 32, 34, 36, 38, 39, 44, 47, 48

Learning Target 4.1 :

- (b) 46, Forty Six (c) 42, Forty two (d) 47, Forty Seven
- (a) 22, 24, 26 (b) 24, 26, 28 (c) 40, 42, 44
(d) 33, 35, 36, 37
- (b) (i) (c) (iv) (d) (iv) (e) (ii)
- (a) Twenty two (b) Forty (c) Thirty eight
(d) Thirty five (e) Thirty seven (f) Forty three
- (b) 48

Task-2 :

- (a) 2, 0 (b) 1, 6 (c) 2, 6
- (a) Do it yourself (b) Do it yourself

Task-3 :

- (a) 39 (b) 31 (c) 40 (d) 35
(e) 29
- (a) 34 (b) 19 (c) 24 (d) 31
(e) 28
- (a) 33 (b) 27 (c) 33 (d) 22
(e) 36

Learning Target 4.2 :

- (a) > (b) > (c) < (d) = (e) <
(f) < (g) < (h) = (i) =
- (a) 19, 20, 36, 42 (b) 31, 33, 40, 50
(c) 9, 18, 23, 24 (d) 50, 40, 21, 12
(e) 38, 36, 31, 30 (f) 50, 49, 21, 16

Just 4 fun : Do it yourself

Catch the Concept :

- (a) 40, Forty (b) 30, Thirty
- (a) 28, 26, 24, 22, 20
(b) 32, 33, 35, 36, 38, 39
- (b) five (c) Twenty four (d) Thirty six
(e) Thirty
- (a) 39 (b) 34 (c) 33
- (a) 10, 20, 32, 50, 55
- (a) 50, 49, 45, 16, 3

Apply Your Mind!

- (a)  (b) 
2. = 3. 33 4. (b) 5. (d)



5. Addition and Subtraction (21 to 50)

Task-1 :

1. (a) 9 (b) 7
2. (a) 19 (b) 18 (c) 3 (d) 14 (e) 5

Just 4 Fun : Yes

Learning Target 5.1 :

1. 34 2. 29 3. 31 4. 18 5. 37
6. 29 7. 29 8. 25 9. 24 10. 29

Learning Target 5.2 :

1. 02 2. 01 3. 07 4. 12 5. 03
6. 30 7. 20 8. 32 9. 16 10. 14

Catch the Concept :

1. (a) (iv) (b) (v) (c) (ii) (d) (iii) (e) (i)
2. (a) (ii) (b) (i) (c) (v) (d) (iii) (e) (iv)

Apply Your Mind!

1. 8, 9 2. (c) 3. 44 4. (a)



6. Addition and Subtraction (51 to 100)

Task-1 :

2, 3, 6, 9, 13, 14, 18, 19, 24, 33, 36, 38, 41, 43, 45, 46, 49, 55, 58, 60, 63, 70, 77, 83, 85, 86, 88, 89, 92, 95, 97

Task-2 :

2. 8, 17, 19, 28 3. 54, 63, 65, 74 4. 32, 41, 43, 52
5. 17, 26, 28, 37 6. 63, 72, 74, 83

Task-3 :

1. (a) 54, 55, 57, 58, 59, 60, 61, 62
(b) 70, 71, 72, 74, 75, 76, 77, 78
(c) 67, 68, 69, 71, 72, 73, 74, 75
2. (a) (ii) (b) (i) (c) (iv) (d) (iii) (e) (vi)
(f) (v)

Learning Target 6.1 :

- (a) 98 (b) 96 (c) 36 (d) 92
- (a) 36 (b) 16 (c) 28 (d) 14
- (a) < (b) < (c) = (d) < (e) >
(f) > (g) = (h) < (i) <
- (a) 6, 12, 45, 78 (b) 61, 35, 19, 2
(c) 16, 36, 65, 97 (d) 90, 81, 50, 18
(e) 30, 50, 60, 70 (f) 85, 76, 66, 16
(g) 16, 35, 45, 56 (h) 85, 71, 21, 19

Task-4 :

- (b) 53, Fifty three (c) 85, Eighty five (d) 80, Eighty

Learning through Puzzle : 97

Learning Target 6.2 :

- (a) 3 (b) 2 (c) 1 (d) 0 (e) 6
(f) 4 (g) 5 (h) 6
- (a) > (b) < (c) < (d) > (e) >
- (a) (ii) (b) (i) (c) (iv) (d) (iii) (e) (vi)
(f) (v)
- (a) 1, 7 (b) 2, 2 (c) 3, 2 (d) 8,3

Task-5 :

- (b) 47 (c) 55 (d) 23 (e) 3 (f) 48
(g) 70 (h) 66
- Do it yourself

Learning Target 6.3 :

Task-6 :

- 53, 54, 55, 56, 57, 58, 59, 60, 61, 62
- 72, 73, 74, 75, 76, 77, 78, 79, 80, 81

Catch the Concept :

- (a) Thirty nine (b) Ninety nine (c) Eighty three
(e) Fifty
- (a) 4, 2, 42 (b) 6, 4, 64 (c) 9, 3, 93
- Do it yourself
- 54, 64, 74, 84, 94, 99
- 89, 80, 63, 25, 12

Apply Your Mind!

- (c) 2. (d) 3. 71 4. (d)



7. More about Addition and Subtraction (0 to 99)

Just 4 Fun : Do it yourself

Task-1 :

- (a) 57 (b) 59 (c) 46 (d) 85 (e) 86
(f) 45 (g) 48 (h) 47
- (a) 0, 4 (b) 4,3 (c) 0, 1 (d) 1, 3
- (a) (iii) (b) (v) (c) (ii) (d) (i) (e) (iv)

Learning through puzzle :

$$25 + 14 = 39$$

Task-2 :

- (b) 36 (c) 38 (d) 18 (e) 27 (f) 48

Learning Target 7.1:

- (b) 59 (c) 48 (d) 47 (e) 77 (f) 59

Task-3 :

- (a) 31 (b) 51 (c) 34 (d) 11 (e) 23
(f) 67 (g) 21 (h) 20 (i) 32 (j) 33
(k) 52 (l) 40
- (a) (ii) (b) (v) (c) (i) (d) (iii) (e) (iv)

Learning through puzzle :

$$86 - 43 = 43$$

Learning Target 7.2 :

- (a) 43 (b) 11 (c) 30 (d) 26 (e) 32

Catch the Concept :

- (a) 49 (b) 24 (c) 79 (d) 47 (e) 75
- (a) 65 (b) 45 (c) 31 (d) 72 (e) 24

Apply Your Mind!

- (c)
- 50
- 32
- 45



8. Multiplication by Repeated Addition

Task-1 :

- (a) $4 + 4 + 4 = 12$ (b) $3 + 3 + 3 = 9$ (c) $5 + 5 + 5 = 15$

2. (b) 4 times 3 or 4×3 (c) 3 times 4 or 3×4
 (d) 6 times 5 or 6×5
 3. (a) (ii) (b) (v) (c) (iv) (d) (i) (e) (iii)

Just 4 fun : Do it yourself

Learning through puzzle : 111

Task-2 :

1. 6 2. 20 3. 15 4. 30 5. 30
 6. 80 7. 3 8. 12

Learning Target 8.1 :

1. 8 2. 15 3. 24 4. 6 5. 45
 6. 42 7. 12 8. 8 9. 14 10. 24
 11. 30 12. 6 13. 30 14. 18 15. 24
 16. 20 17. 40 18. 56 19. 21 20. 25

Catch the Concept :

1. (a) 6 (b) 5 (c) 4 (d) 4
 2. (a) (ii) (b) (iv) (c) (v) (d) (i) (e) (iii)
 3. (a) 6 (b) 3 (c) 8 (d) 10 (e) 3
 (f) 10 (g) 0 (h) 3 (i) 4
 4. (a) 4, 7, 28 (b) 5, 8, 40 (c) 2, 5, 10 (d) 2, 9, 18

Apply Your Mind!

1. (c) 2. 60, 70, 80
 3. (a) 4 (b) 2 (c) 8 4. 10



9. Measurement

Task-1 :

1. 5 2. 7 3. 7

Learning through puzzle : Rahul

Task-2 : Do it yourself

Learning Target 9.1 :

1. (a) car (b) chair (c) elephant (d) tree
 2. (a) Pineapple (b) bag

Learning through puzzle : grapes, pineapple

Learning Target 9.2 :

1. (a) glass (b) bottle (c) bucket (d) tank
 2. (a) 4 (b) 3 (c) 2 (d) 3

Just 4 Fun : Navya

Catch the Concept :

- (a) Bus (b) Pencil
- (a) Mango (b) Match box
- (a) 3 (b) 6

Apply Your Mind!

- Plank
- Bag, book, eraser,
- 4
- 12



10. Shapes and Patterns

Task-1 :

- square
- circle
- rectangle
- triangle
- oval
- circle

Task-2 :

- (i)
- (iii)
- (iv)
- (ii)
- (v)

Task-3 :

- ✓, ×, flat surface
- ×, ✓, round surface
- ✓, ×, flat surface

Learning Target 10.1 :

- Do it yourself
- Do it yourself

Just 4 fun :

- (a) 4 (b) 10 (c) 7 (d) 5

Catch the Concept :

- (a) 4 (b) 3 (c) 3 (d) no
- (a) T (b) F (c) T (d) F (e) T

Apply Your Mind!

- 6
- (c)
- (b)
- Cone
- (a)



11. Times and Calendar

Learning Target 11.1 :

- Do it yourself
- Do it yourself
- (b) 8:00, 8 O'clock (c) 1:00, 1 O'clock
(d) 3:00, 3 O'clock (e) 10:00, 10 O'clock

Learning through puzzle : Thursday

Task-1 :

- (a) More time (b) More time
(c) Less time (d) Less time
(e) Less time (f) More time
- (a) Thursday, Saturday (b) Tuesday, Wednesday
(c) Sunday, Monday (d) Friday, Sunday

Just 4 fun : Do it yourself

Catch the Concept :

- (a) Do it yourself
- (a) Monday, Wednesday
(b) Sunday (c) 24, 22 (d) Saturday
- (a) Fifth (b) Ninth (c) Twelveth
(d) Seventh

Apply Your Mind!

- 14
- Friday
- b
- 7
- 60



12.

Money

Learning Target 12.1 :

- (iv)
- (iii)
- (ii)
- (i)

but one is a coin and other one is a note.

Task-1 : Do it yourself

Catch the concept :

- ₹ 100
- ₹ 20
- ₹ 10
- ₹ 5
- ₹ 2
- ₹ 1
- ₹ 5

Apply Your Mind!

- 5
- d
- ₹ 5
- 4
- 4 toys



Model Test Paper-I

- 1, 3, 4, 7, 8, 10
- (1) 2, 3, 4, 7, 8, 9, 11, 13, 14, 15
(2) 1, 3, 5, 7, 9, 11, 13, 15
- (a) 1 (b) 10 (c) 11
- (a) 11 (b) 6 (c) 19

5. (a) Thirteen (b) Fifteen (c) Twelve (d) Eleven
(e) Eighteen
6. (a) iii (b) iv (c) v (d) ii
(e) i



Model Test Paper-II

1. (a) 57 (b) 59 (c) 46
2. (a) 55 (b) 59 (c) 48
3. (a) ii (b) v (c) i (d) iii (e) iv
4. (a) 8 (b) 12
5. (a) 6 (b) 20 (c) 15 (d) 30 (e) 30
(f) 80 (g) 3 (h) 12

