

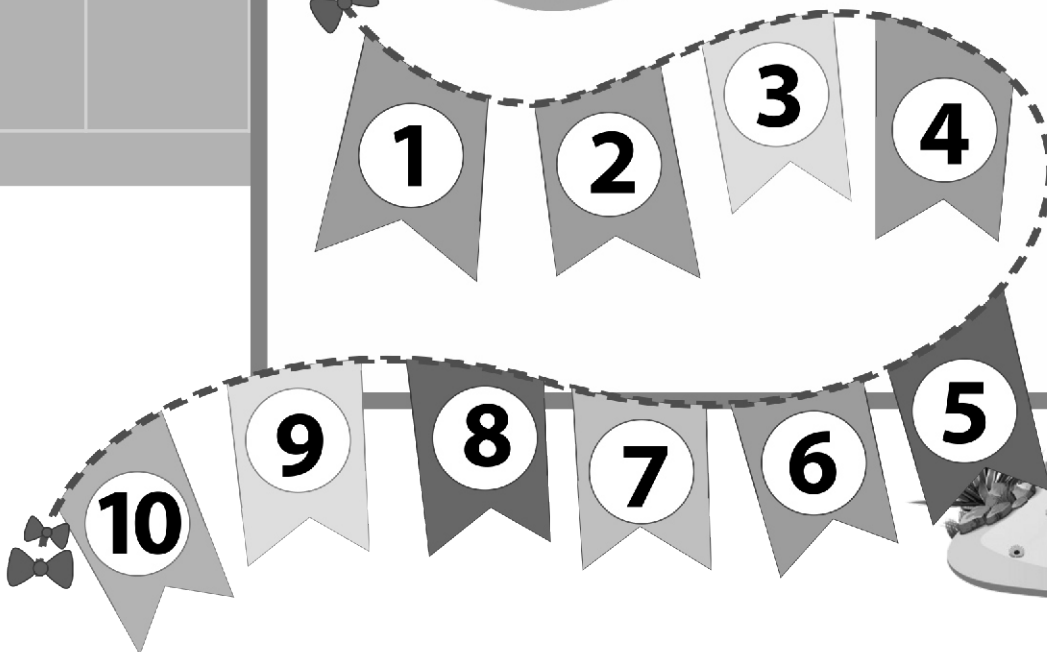
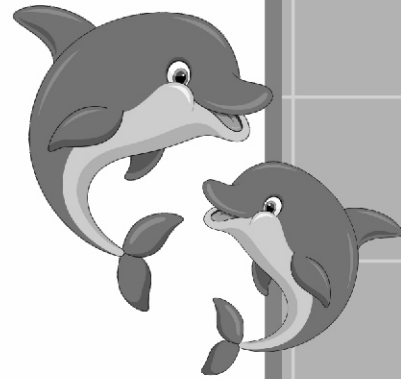
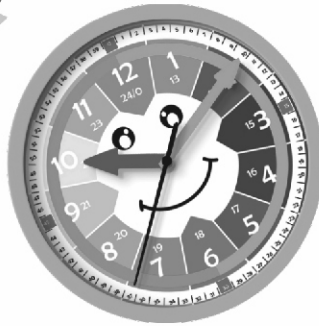
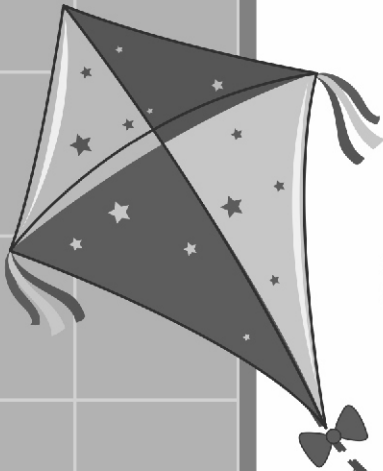


$$3 - 2 = 1$$



Foundation Mathematics

2



1. Know Your Numbers

Task-1

- (b) Twenty three (c) Fifty
(d) Forty six (e) Twenty eight
(f) Forty eight (g) Ninety one
(h) Ninety nine
- (b) 45 (c) 64 (d) 36
- (b) $40 + 3$ (c) $10 + 8$ (d) $70 + 2$
(e) $50 + 1$ (f) $80 + 4$
- (a) 2 tens 6 ones = 26 (b) 3 tens 4 ones = 34
(c) 4 tens 3 ones = 43 (d) 5 tens 6 ones = 56
(e) 8 tens 0 ones = 80 (f) 9 tens 4 ones = 94
- (b) 4 tens 5 ones = 45 = Forty five
(c) 5 tens 4 ones = 54 = Fifty four
(d) 6 tens 7 ones = 67 = Sixty seven
(e) 9 tens 1 ones = 91 = Ninety one
(f) 8 tens 5 ones = 85 = Eighty five

Task-2

- (b) Place value of 3 = $3 \times 10 = 30$
(c) Place value of 1 = $1 \times 1 = 1$
(d) Place value of 4 = $4 \times 10 = 40$
- | Before | After | Between |
|--------|---------|---------|
| (a) 22 | (b) 37 | (c) 70 |
| (d) 71 | (e) 100 | (f) 39 |

Learning Target 1.1

- (b) $200 + 40 + 1 = 241$ (c) $100 + 80 + 4 = 184$
(d) $200 + 20 + 1 = 221$ (e) $300 + 2 = 302$
(f) $200 + 50 + 2 = 252$
- (a)

101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180

- | | | | | | | | | | | |
|-----|------------|------------|------------|------------|------------|-----|------------|------------|------------|-----|
| | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 |
| | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 |
| (b) | 851 | 852 | 853 | 854 | | (c) | 535 | 536 | 537 | |
| | 855 | 856 | 857 | 858 | | | 538 | 539 | 540 | |
| | 859 | 860 | 861 | 862 | | | 541 | 542 | 543 | |
| (d) | 775 | 776 | 777 | 778 | | | | | | |
| | 779 | 780 | 781 | 782 | | | | | | |
| | 783 | 784 | 785 | 786 | | | | | | |
| 3. | 145 | 146 | 147 | | | | | | | |
| | 154 | 155 | 156 | | | | | | | |
| | 164 | 165 | 166 | | | | | | | |
| | | 176 | 177 | | | | | | | |

Task-3

- (a) 10 tens = $10 \times 10 = 100$ (b) 60 tens = $60 \times 10 = 600$
(c) 20 tens = $20 \times 10 = 200$ (d) 90 tens = $90 \times 10 = 900$
- (b) 532 \Rightarrow Five hundred thirty two
(c) 625 \Rightarrow Six hundred twenty five
- (b) 605 \Rightarrow Six hundred five
(c) 710 \Rightarrow Seven hundred ten
(d) 264 \Rightarrow Two hundred sixty four
(e) 999 \Rightarrow Nine hundred ninety nine

Learning Target 1.2

- (b) 732 (c) 432 (d) 332 (e) 115
(f) 905 (g) 461 (h) 505 (i) 666
(j) 633 (k) 667 (l) 564
- (b) $8 \times 1 = 8$ (c) $2 \times 1 = 2$ (d) $5 \times 100 = 500$
(e) $3 \times 100 = 300$ (f) $1 \times 100 = 100$ (g) $7 \times 10 = 70$
(h) $2 \times 1 = 2$

Task-4

- (b) $500 + 0 + 3$ (c) $600 + 10 + 8$ (d) $300 + 10 + 5$
(e) $200 + 80 + 4$ (f) $400 + 80 + 9$
- Before** **After** **Between**
(a) 541 (d) 240 (g) 209
(b) 307 (e) 605 (h) 650
(c) 863 (f) 515 (i) 344

Just 4 fun

Highest possible three digit number by moving
2 match sticks = 985

Learning Target 1.3

1. (a) $100 < 105$ (b) $603 < 630$ (c) $369 = 369$
(d) $205 > 192$ (e) $819 < 981$ (f) $736 > 731$
(g) $555 > 553$ (h) $458 > 408$
2. Ascending Order
(a) $568 < 610 < 636 < 690$
(b) $300 < 305 < 306 < 393$
(c) $105 < 150 < 163 < 168$
(d) $384 < 483 < 834 < 843$
(e) $609 < 629 < 649 < 659$
3. Decending Order
(a) $596 > 530 > 408 > 301$
(b) $555 > 532 > 325 > 253$
(c) $963 > 936 > 693 > 369$
(d) $625 > 515 > 505 > 265$
(e) $563 > 506 > 356 > 306$

Task-5

1. Do it yourself.
2. (a) Even numbers—106, 164, 270, 362, 438, 900, 568.
(b) Odd numbers—93, 435, 311, 543, 117, 49, 999

Catch the Concept

1. (a) Do it yourself.
(b) $563 \Rightarrow$ Odd number
Expanded form = $500 + 60 + 3$, Before number = 562
(c) Word form = Five hundred and sixty three
After number = 564
(d) $563 + 10 = 573$, $563 - 10 = 553$
 $563 + 100 = 663$, $563 - 100 = 463$
2. Ascending order $\Rightarrow 234 < 243 < 342 < 423 < 432$
3. Descending order $\Rightarrow 605 > 566 < 560 > 506 > 356$
4. (a) $168 > 158$ (b) $243 < 253$
(c) $805 > 790$ (d) $685 = 685$

Learning Through Puzzle

Do it yourself.

Apply Your Mind!

1. 3-hundred
2. Tens in $360 = 36 \times 10 = 36$

3. 4 tens + 32 ones = $40 + 32 = 72$
4. Greatest 3-digit number by digits 2, 8 and 1 821
 Smallest 3-digit number by digits 2, 8 and 1 128
 Difference = $821 - 128 = 693$



2.

Addition

Task-1

- | | | |
|--|--|--|
| 1. $\begin{array}{r} 43 \\ + 1 \\ \hline 44 \end{array}$ | 2. $\begin{array}{r} 54 \\ + 2 \\ \hline 56 \end{array}$ | 3. $\begin{array}{r} 28 \\ + 1 \\ \hline 29 \end{array}$ |
| 4. $\begin{array}{r} 32 \\ + 5 \\ \hline 37 \end{array}$ | 5. $\begin{array}{r} 24 \\ + 3 \\ \hline 27 \end{array}$ | 6. $\begin{array}{r} 56 \\ + 4 \\ \hline 60 \end{array}$ |
| 7. $\begin{array}{r} 39 \\ + 4 \\ \hline 43 \end{array}$ | 8. $\begin{array}{r} 43 \\ + 5 \\ \hline 48 \end{array}$ | |

Task-2

- | | |
|---|--|
| 1. $\begin{array}{r} 5 \\ + 6 \\ \hline 11 \end{array}$ | 3. $\begin{array}{r} 12 \\ + 8 \\ \hline 20 \end{array}$ |
|---|--|

Learning Target 2.1

- | | | |
|---|---|---|
| 1. $\begin{array}{r} \text{T O} \\ 23 \\ + 41 \\ \hline 64 \end{array}$ | 2. $\begin{array}{r} \text{T O} \\ 43 \\ + 26 \\ \hline 69 \end{array}$ | 3. $\begin{array}{r} \text{T O} \\ 34 \\ + 25 \\ \hline 59 \end{array}$ |
| 4. $\begin{array}{r} \text{T O} \\ 34 \\ + 52 \\ \hline 86 \end{array}$ | 5. $\begin{array}{r} \text{T O} \\ 80 \\ + 14 \\ \hline 94 \end{array}$ | |

Task-3

2. 6 tens + 12 ones \Rightarrow 12 ones = 1 ten + 2 ones = 6 tens + 1 ten + 2 ones = 7 tens 2 ones
3. 8 tens + 18 ones \Rightarrow 18 ones = 1 ten + 8 ones = 8 tens + 1 ten + 8 ones = 9 tens 8 ones

4. 4 tens + 15 ones \Rightarrow 15 ones = 1 ten + 5 ones = 4 tens + 1 ten + 5 ones = 5 tens 5 ones
5. 3 tens + 12 ones \Rightarrow 12 ones = 1 ten + 2 ones = 3 tens + 1 ten + 2 ones = 4 ten 2 ones
6. 6 tens + 11 ones \Rightarrow 11 ones = 1 ten + 1 ones = 6 tens + 1 ten + 1 ones = 7 tens 1 ones

Learning Through Puzzle

2. $2+1=3$, $3+0=3$
3. $8+4=12$, $7+5=12$

Learning Target 2.2

- | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. T O
3 5
<u>+2 6</u>
6 1 | 2. T O
3 3
<u>+4 7</u>
8 0 | 3. T O
2 9
<u>+4 3</u>
7 2 |
| 4. T O
1 9
<u>+3 4</u>
5 3 | 5. T O
4 3
<u>+2 6</u>
6 9 | 6. T O
3 8
<u>+1 6</u>
5 4 |
| 7. T O
5 4
<u>+2 6</u>
8 0 | 8. T O
4 9
<u>+3 2</u>
8 1 | |

Just 4 Fun

$5+4=9$

Learning Target 2.3

- | | | |
|---|---|---|
| 2. H T O
2 8 3
<u>+3 1 2</u>
5 9 5 | 3. H T O
5 2 3
<u>+3 0 5</u>
8 2 8 | 4. H T O
4 2 5
<u>+1 6 0</u>
5 8 5 |
| 5. H T O
4 0 6
<u>+3 9 0</u>
7 9 6 | 6. H T O
1 4 3
<u>+2 3 4</u>
3 7 7 | 7. H T O
3 4 2
<u>+4 3 3</u>
7 7 5 |
| 8. H T O
4 4 4
<u>+2 1 4</u>
6 5 8 | | |

Learning through puzzle

1. $\begin{array}{r} 12 \\ +35 \\ \hline 47 \end{array}$	2. $\begin{array}{r} 35 \\ +60 \\ \hline 95 \end{array}$	3. $\begin{array}{r} 321 \\ +157 \\ \hline 478 \end{array}$
4. $\begin{array}{r} 34 \\ +15 \\ \hline 49 \end{array}$		

Learning Target 2.4

1. $\begin{array}{r} \text{H T O} \\ 348 \\ +263 \\ \hline 611 \end{array}$	2. $\begin{array}{r} \text{H T O} \\ 246 \\ +308 \\ \hline 554 \end{array}$	3. $\begin{array}{r} \text{H T O} \\ 411 \\ +394 \\ \hline 805 \end{array}$
4. $\begin{array}{r} \text{H T O} \\ 643 \\ +248 \\ \hline 891 \end{array}$	5. $\begin{array}{r} \text{H T O} \\ 434 \\ +386 \\ \hline 820 \end{array}$	6. $\begin{array}{r} \text{H T O} \\ 118 \\ +192 \\ \hline 310 \end{array}$
7. $\begin{array}{r} \text{H T O} \\ 205 \\ +538 \\ \hline 743 \end{array}$	8. $\begin{array}{r} \text{H T O} \\ 643 \\ +292 \\ \hline 935 \end{array}$	

Task-4

1. $\begin{array}{r} 435 \\ +188 \\ \hline 623 \end{array}$	2. $\begin{array}{r} 638 \\ +143 \\ \hline 781 \end{array}$	3. $\begin{array}{r} 382 \\ +209 \\ \hline 591 \end{array}$
4. $\begin{array}{r} 615 \\ +193 \\ \hline 808 \end{array}$		

Learning Target 2.5

1. $\begin{array}{r} \text{T O} \\ 43 \\ 24 \\ +32 \\ \hline 99 \end{array}$	2. $\begin{array}{r} \text{T O} \\ 26 \\ 35 \\ +19 \\ \hline 80 \end{array}$	3. $\begin{array}{r} \text{T O} \\ 71 \\ 63 \\ +82 \\ \hline 216 \end{array}$
--	--	---

$$\begin{array}{r}
 4. \text{ T O} \\
 32 \\
 19 \\
 +33 \\
 \hline
 84
 \end{array}$$

$$\begin{array}{r}
 5. \text{ T O} \\
 63 \\
 10 \\
 +14 \\
 \hline
 87
 \end{array}$$

$$\begin{array}{r}
 6. \text{ T O} \\
 32 \\
 36 \\
 +21 \\
 \hline
 89
 \end{array}$$

$$\begin{array}{r}
 7. \text{ H T O} \\
 189 \\
 243 \\
 +111 \\
 \hline
 543
 \end{array}$$

$$\begin{array}{r}
 8. \text{ H T O} \\
 246 \\
 183 \\
 +214 \\
 \hline
 643
 \end{array}$$

$$\begin{array}{r}
 9. \text{ H T O} \\
 510 \\
 302 \\
 +110 \\
 \hline
 922
 \end{array}$$

Learning Target 2.6

- | | |
|--|--------------|
| 1. Number of apples in a basket | = 32 |
| Number of oranges in a basket | = +17 |
| Total number of fruits | = <u>49</u> |
| 2. Number of apple trees in an orchard | = 45 |
| Number of coconut trees in an orchard | = +36 |
| Total number of trees | = <u>81</u> |
| 3. Number of rose plants in a garden | = 263 |
| Number of marigold plants in a garden | = +148 |
| Total number of plants in a garden | = <u>411</u> |
| 4. Number of plates in a kitchen | = 43 |
| Number of tumblers in a kitchen | = 265 |
| Number of spoons in a kitchen | = +143 |
| Total number of utensils in a kitchen | = <u>451</u> |
| 5. Number of yellow kites in a shop | = 43 |
| Number of blue kites in a shop | = +114 |
| Total number of kites in a shop | = <u>157</u> |

Catch the Concept

- | | | |
|---|----------------|-----------------|
| 1. Addition | 2. Same number | 4. sum or total |
| 3. After number or successor | 8. 1 | 9. ones |
| 5. 0 | 6. 34 | 7. 1 |
| 10. $\begin{array}{r} 400 \\ 20 \\ + 5 \\ \hline 425 \end{array}$ | 11. 74 | 12. addends |

Apply Your Mind!

1. 90 tens = $90 \times 10 = 900$, 5 hundred = $5 \times 100 = 500$,
3 tens = $3 \times 10 = 30$, 6 ones = $6 \times 1 = 6$

$$\begin{array}{r} 900 \\ 500 \\ 30 \\ + 6 \\ \hline 1436 \end{array}$$

2. $6 + 4 = 10$ and $14 - 4 = 10$ Answer = 4

3.
$$\begin{array}{r} 46 \\ + 29 \\ \hline 75 \end{array}$$

4. 201

5. $6 + 0 + 2 = 8$



3. Subtraction

Task-1

1. (b)
$$\begin{array}{r} 18 \\ - 9 \\ \hline 9 \end{array}$$

(c)
$$\begin{array}{r} 15 \\ - 7 \\ \hline 8 \end{array}$$

2. (b)
$$\begin{array}{r} 65 \\ - 3 \\ \hline 62 \end{array}$$

(c)
$$\begin{array}{r} 84 \\ - 4 \\ \hline 80 \end{array}$$

(d)
$$\begin{array}{r} 36 \\ - 3 \\ \hline 33 \end{array}$$

(e)
$$\begin{array}{r} 24 \\ - 2 \\ \hline 22 \end{array}$$

(f)
$$\begin{array}{r} 58 \\ - 6 \\ \hline 52 \end{array}$$

(g)
$$\begin{array}{r} 79 \\ - 5 \\ \hline 74 \end{array}$$

(h)
$$\begin{array}{r} 26 \\ - 4 \\ \hline 22 \end{array}$$

Learning Target 3.1

2. T O
$$\begin{array}{r} 58 \\ - 24 \\ \hline 34 \end{array}$$

3. T O
$$\begin{array}{r} 74 \\ - 20 \\ \hline 54 \end{array}$$

4. T O
$$\begin{array}{r} 84 \\ - 32 \\ \hline 52 \end{array}$$

5. T O
$$\begin{array}{r} 48 \\ - 32 \\ \hline 16 \end{array}$$

6. T O
$$\begin{array}{r} 64 \\ - 30 \\ \hline 34 \end{array}$$

7. T O
$$\begin{array}{r} 47 \\ - 23 \\ \hline 24 \end{array}$$

8. T O
$$\begin{array}{r} 48 \\ - 32 \\ \hline 16 \end{array}$$

9. T O
$$\begin{array}{r} 59 \\ - 24 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 10. \text{ T O} \\ 94 \\ -21 \\ \hline 73 \end{array}$$

$$\begin{array}{r} 11. \text{ T O} \\ 79 \\ -40 \\ \hline 39 \end{array}$$

$$\begin{array}{r} 12. \text{ T O} \\ 84 \\ -23 \\ \hline 61 \end{array}$$

Task-2

$$\begin{array}{r} 1. \text{ T O} \\ 54 \\ -36 \\ \hline 18 \end{array}$$

$\therefore 4 < 6$ so we take 1 ten from left
it becomes 14
Ten column becomes $5 - 1 = 4$

$$\begin{array}{r} 2. \text{ T O} \\ 82 \\ -39 \\ \hline 43 \end{array}$$

$\therefore 2 < 9$ so we take 1 ten from left
it becomes 12
Ten column becomes $8 - 1 = 7$

$$\begin{array}{r} 3. \text{ T O} \\ 60 \\ -25 \\ \hline 35 \end{array}$$

$\therefore 0 < 5$ so we take 1 ten from left
it becomes 10
Ten column becomes $6 - 1 = 5$

$$\begin{array}{r} 4. \text{ T O} \\ 84 \\ -38 \\ \hline 46 \end{array}$$

$\therefore 4 < 8$ so we take 1 ten from left
it becomes 14
Ten column becomes $8 - 1 = 7$

$$\begin{array}{r} 5. \text{ T O} \\ 84 \\ -27 \\ \hline 57 \end{array}$$

$\therefore 4 < 7$ so we take 1 ten from left
it becomes 14
Ten column becomes $8 - 1 = 7$

$$\begin{array}{r} 6. \text{ T O} \\ 84 \\ -39 \\ \hline 45 \end{array}$$

$\therefore 4 < 9$ so we take 1 ten from left
it becomes 14
Ten column becomes $8 - 1 = 7$

$$\begin{array}{r} 7. \text{ T O} \\ 28 \\ -19 \\ \hline 09 \end{array}$$

$\therefore 8 < 9$ so we take 1 ten from left
it becomes 18
Ten column becomes $2 - 1 = 1$

$$\begin{array}{r} 8. \text{ T O} \\ 43 \\ -26 \\ \hline 17 \end{array}$$

$\therefore 3 < 6$ so we take 1 ten from left
it becomes 13
Ten column becomes $4 - 1 = 3$

9. T O

$$\begin{array}{r} 74 \\ -59 \\ \hline 15 \end{array}$$
- ∴ $4 < 9$ so we take 1 ten from left
it becomes 14
Ten column becomes $7 - 1 = 6$
10. T O

$$\begin{array}{r} 63 \\ -26 \\ \hline 37 \end{array}$$
- ∴ $3 < 6$ so we take 1 ten from left
it becomes 13
Ten column becomes $6 - 1 = 5$
11. T O

$$\begin{array}{r} 90 \\ -56 \\ \hline 34 \end{array}$$
- ∴ $0 < 6$ so we take 1 ten from left
it becomes 10
Ten column becomes $9 - 1 = 8$
12. T O

$$\begin{array}{r} 45 \\ -26 \\ \hline 19 \end{array}$$
- ∴ $5 < 6$ so we take 1 ten from left
it becomes 15
Ten column becomes $4 - 1 = 3$
13. T O

$$\begin{array}{r} 50 \\ -19 \\ \hline 31 \end{array}$$
- ∴ $0 < 9$ so we take 1 ten from left
it becomes 10
Ten column becomes $5 - 1 = 4$
14. T O

$$\begin{array}{r} 47 \\ -26 \\ \hline 21 \end{array}$$

Learning through puzzle

$$\begin{array}{r} 86 \\ -14 \\ \hline 72 \end{array}$$

Task-3

- | | | |
|--|--|--|
| 1. H T O
$\begin{array}{r} 654 \\ -231 \\ \hline 423 \end{array}$ | 2. H T O
$\begin{array}{r} 843 \\ -201 \\ \hline 642 \end{array}$ | 3. H T O
$\begin{array}{r} 999 \\ -555 \\ \hline 444 \end{array}$ |
| 4. H T O
$\begin{array}{r} 438 \\ -204 \\ \hline 234 \end{array}$ | 5. H T O
$\begin{array}{r} 847 \\ -204 \\ \hline 643 \end{array}$ | 6. H T O
$\begin{array}{r} 645 \\ -424 \\ \hline 221 \end{array}$ |

$$\begin{array}{r} 7. \text{ H T O} \\ 893 \\ -352 \\ \hline 541 \end{array}$$

$$\begin{array}{r} 8. \text{ H T O} \\ 777 \\ -205 \\ \hline 572 \end{array}$$

$$\begin{array}{r} 9. \text{ H T O} \\ 863 \\ -243 \\ \hline 620 \end{array}$$

$$\begin{array}{r} 10. \text{ H T O} \\ 648 \\ -325 \\ \hline 323 \end{array}$$

Learning Target 3.2

$$\begin{array}{r} 2. \text{ H T O} \\ 778 \\ -395 \\ \hline 383 \end{array}$$

$\therefore 7 < 9$ so we take 1 hundred from left
it becomes 17
Hundred column $7 - 6 = 1$

$$\begin{array}{r} 3. \text{ H T O} \\ 445 \\ -258 \\ \hline 187 \end{array}$$

$\therefore 5 < 8$ so we take 1 ten from left it becomes 15
 $3 < 5$ so we take 1 hundred from left
it becomes 13
hundred column $4 - 1 = 3$

$$\begin{array}{r} 4. \text{ H T O} \\ 600 \\ -345 \\ \hline 255 \end{array}$$

\therefore First borrow 1 hundred for tens column. Now we
have 10 tens. Again borrow 1 tens for ones column.
Now, we have 10 ones

$$\begin{array}{r} 5. \text{ H T O} \\ 663 \\ -265 \\ \hline 398 \end{array}$$

$\therefore 3 < 5$ so we take 1 ten from left it becomes 13
 $5 < 6$ so we take 1 hundred from left it becomes 15
Hundred column becomes $6 - 1 = 5$

$$\begin{array}{r} 6. \text{ H T O} \\ 296 \\ -288 \\ \hline 008 \end{array}$$

$\therefore 6 < 8$ so we take 1 ten from left
it becomes 16

$$\begin{array}{r} 7. \text{ H T O} \\ 505 \\ -354 \\ \hline 151 \end{array}$$

$\therefore 0 < 5$ so we take 1 hundred from left
it becomes 10
Hundred column $5 - 1 = 4$

$$\begin{array}{r} 8. \text{ H T O} \\ 908 \\ -438 \\ \hline 470 \end{array}$$

$\therefore 0 < 3$ so we take 1 hundred from left
it becomes 10
Hundred column $9 - 1 = 8$

Task-4

1.
$$\begin{array}{r} \text{H T O} \\ 373 \\ -257 \\ \hline 116 \end{array} \Rightarrow \begin{array}{l} 3 \text{ hundreds} + 7 \text{ tens} + 3 \text{ ones} \\ - 2 \text{ hundreds} + 5 \text{ tens} + 7 \text{ ones} \\ \hline 1 \text{ hundred} + 1 \text{ ten} + 6 \text{ ones} \end{array}$$

2.
$$\begin{array}{r} \text{H T O} \\ 733 \\ -543 \\ \hline 190 \end{array} \Rightarrow \begin{array}{l} 7 \text{ hundreds} + 3 \text{ tens} + 3 \text{ ones} \\ - 5 \text{ hundreds} + 4 \text{ tens} + 3 \text{ ones} \\ \hline 1 \text{ hundred} + 9 \text{ tens} + 0 \text{ ones} \end{array}$$

Task-5

2.
$$\begin{array}{r} 79 \\ -3 \\ \hline 76 \end{array}$$

3.
$$\begin{array}{r} 75 \\ -25 \\ \hline 50 \end{array}$$

4.
$$\begin{array}{r} 65 \\ -20 \\ \hline 45 \end{array}$$

5.
$$\begin{array}{r} 58 \\ -6 \\ \hline 52 \end{array}$$

6.
$$\begin{array}{r} 39 \\ -3 \\ \hline 36 \end{array}$$

Learning Target 3.3

2. Total number of students in a school = 500
Number of boys in a school = $\underline{-280}$
Number of girls in a school = $\underline{220}$

3. Total number of apples = 489
Apples sold = $\underline{-260}$
Apples left = $\underline{229}$

4. Total number of passengers bus carried = 60
At a bus stop passengers got down = $\underline{-35}$
Passengers left in the bus = $\underline{25}$

5. Number of trees in a village = 483
Number of trees cut down = $\underline{-205}$
Trees left in a village = $\underline{278}$

6. Number of pages in a book = 365
Number of pages read by Asha = $\underline{-163}$
Number of pages left = $\underline{202}$

Catch the Concept

1. Remaining value 2. Subtraction 3. Ones

4. Smallest four digit number = 1000
greatest three digit number = $\underline{-999}$
Difference = $\underline{001}$

- | | | |
|---|---|---------------|
| 5. Predecessor | 6. Successor | 7. Difference |
| 8. Minuend | 9. Subtrahend | 10. 11 |
| 11. $\begin{array}{r} 758 \\ - 1 \\ \hline 757 \end{array}$ | 12. $\begin{array}{r} 528 \\ - 100 \\ \hline 428 \end{array}$ | |

Apply Your Mind!

- $$\begin{array}{r} 708 \\ - 149 \\ \hline 559 \end{array}$$

Answer is 1
- $\square - \triangle = 50$, $\square + \triangle = 150$
 Hence $\square = 100$, $\triangle = 50$
- $$\begin{array}{r} 1000 \\ - 440 \\ \hline 560 \end{array}$$

$440 = 44 \times 10$
so 44 tens must be subtracted
- $568 < 598 - 15$
- | | | |
|-----------------------------|---|--------------------|
| Greatest three digit number | = | 999 |
| Smallest three digit number | = | $\underline{-100}$ |
| Difference | = | $\underline{899}$ |



4. Multiplication

Task-1

- | | |
|--|-------------------------------------|
| 1. (b) 3 times 5
or
3×5 | (c) 4 times 4
or
4×4 |
| (d) 3 times 3
or
3×3 | (e) 3 times 6
or
3×6 |

Q. 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 (Do it yourself).

Task-2

- | | | | |
|--------|--------|--------|--------|
| (a) 8 | (b) 40 | (c) 24 | (d) 21 |
| (e) 32 | (f) 45 | (g) 25 | (h) 64 |
- | | | | |
|--------|--------|--------|--------|
| (a) 20 | (b) 10 | (c) 50 | (d) 30 |
| (e) 80 | (f) 60 | | |
- | |
|-----------------------|
| (b) $2 \times 7 = 14$ |
|-----------------------|

Task-3

1. (a) 0 (b) 24 (c) 6 (d) 8
 (e) 5 (f) 0 (g) 45 (h) 15
 (i) 8 (j) 6 (k) 0 (l) 15

2. \times 1 2 3 4 5 6 7 8 9 10
 5 5 10 15 20 25 30 35 40 45 50
 7 7 14 21 28 35 42 49 56 63 70
 8 8 16 24 32 40 48 56 64 72 80

3. (a) $3 \times 2 = 6$ (b) $6 \times 2 = 12$ (c) $8 \times 2 = 16$
 (d) $10 \times 2 = 20$ (e) $5 \times 2 = 10$ (f) $7 \times 2 = 14$
 (g) $9 \times 2 = 18$ (h) $11 \times 2 = 22$

Learning Target 4.1

1. T O 2. T O 3. T O 4. T O
 1 3 1 6 1 1 1 0
 $\times 2$ $\times 1$ $\times 4$ $\times 6$
 2 6 1 6 4 4 6 0
5. T O 6. T O 7. T O 8. T O
 1 8 3 3 3 4 2 3
 $\times 0$ $\times 3$ $\times 2$ $\times 3$
 0 0 9 9 6 8 6 9
9. T O 10. T O
 2 3 1 4
 $\times 2$ $\times 2$
 4 6 2 8

Learning Target 4.2

1. T O 2. T O 3. T O 4. T O
 3 4 1 3 2 5 2 7
 $\times 3$ $\times 7$ $\times 4$ $\times 3$
 1 0 2 9 1 1 0 0 8 1
5. T O 6. T O 7. T O 8. T O
 3 2 4 6 3 6 2 6
 $\times 5$ $\times 2$ $\times 4$ $\times 3$
 1 6 0 9 2 1 4 4 7 8

$$\begin{array}{r} 9. \text{ T O} \\ 38 \\ \times 2 \\ \hline 76 \end{array}$$

$$\begin{array}{r} 10. \text{ T O} \\ 25 \\ \times 3 \\ \hline 75 \end{array}$$

Task-4

$$\begin{array}{r} 1. \text{ H T O} \\ 211 \\ \times 2 \\ \hline 422 \end{array}$$

$$\begin{array}{r} 2. \text{ H T O} \\ 212 \\ \times 3 \\ \hline 636 \end{array}$$

$$\begin{array}{r} 3. \text{ H T O} \\ 431 \\ \times 2 \\ \hline 862 \end{array}$$

$$\begin{array}{r} 4. \text{ H T O} \\ 245 \\ \times 1 \\ \hline 245 \end{array}$$

$$\begin{array}{r} 5. \text{ H T O} \\ 301 \\ \times 2 \\ \hline 602 \end{array}$$

$$\begin{array}{r} 6. \text{ H T O} \\ 404 \\ \times 2 \\ \hline 808 \end{array}$$

$$\begin{array}{r} 7. \text{ H T O} \\ 300 \\ \times 2 \\ \hline 600 \end{array}$$

$$\begin{array}{r} 8. \text{ H T O} \\ 333 \\ \times 3 \\ \hline 999 \end{array}$$

$$\begin{array}{r} 9. \text{ H T O} \\ 331 \\ \times 3 \\ \hline 993 \end{array}$$

$$\begin{array}{r} 10. \text{ H T O} \\ 143 \\ \times 2 \\ \hline 286 \end{array}$$

Learning Target 4.3

$$\begin{array}{l} 2. \text{ Number of mangoes on a tree} = 240 \\ \text{Number of mangoes on 3 tree} = \times 3 \\ \text{Total number of mangoes} = \underline{720} \end{array}$$

$$\begin{array}{l} 3. \text{ Number of pencils in one packet} = 60 \\ \text{Pencils in two packet} = \times 2 \\ \text{Total number of pencils} = \underline{120} \end{array}$$

$$\begin{array}{l} 4. \text{ Sravya made pizzas} = 12 \\ \text{She cuts pizza into pieces} = \times 4 \\ \text{Total number of pieces} = \underline{48} \end{array}$$

$$\begin{array}{l} 5. \text{ Total number of buses} = 34 \\ \text{Number of wheels in each bus} = \times 4 \\ \text{Total number of wheels} = \underline{136} \end{array}$$

Catch the Concept

- | | | |
|----------------------|------------|-----------------|
| 1. (a) 4 | (b) 18 | (c) 0 |
| (d) 6 | (e) 7 | |
| 2. Repeated addition | 3. ones | 4. Product |
| 5. 0 | 6. same | 7. Multiplicand |
| 8. Multiplier | 9. Product | 10. 80 |
| 11. 500 | 12. 0 | |

Apply Your Mind!

- | | |
|--|-----------------------------------|
| 1. $10 \times 100 = 1000$ | 2. $4 \times 25 \times 8 = 800$ |
| 3. $\begin{array}{r} 44 \\ \times 5 \\ \hline 220 \end{array}$ | 5. $4 \times 8 = 2 \times 8 + 16$ |
| 4. $6 \times 6 + 8 = 36 + 8 = 44$ | |



5.

Division

Task-1

- | | |
|-------------------------------|--|
| 1. Total number of toffees | = 18 |
| Number of Children | = 3 |
| Share of each children | = $3 \overline{) 18} (6$ |
| = 6 | $\begin{array}{r} -18 \\ \hline 0 \end{array}$ |
| 2. Number of flowers | = 8 |
| Number of pots | = 4 |
| Number of flowers in each pot | = $4 \overline{) 8} (2$ |
| = 2 | $\begin{array}{r} -8 \\ \hline 0 \end{array}$ |
| 3. Number of mangoes | = 12 |
| Number of plates | = 4 |
| Mangoes in each plate | = $4 \overline{) 12} (3$ |
| = 3 | $\begin{array}{r} -12 \\ \hline 0 \end{array}$ |
| 4. Number of ice-creams | = 6 |
| Number of children | = 2 |
| Ice-cream each children get | = $2 \overline{) 6} (3$ |
| = 3 | $\begin{array}{r} -6 \\ \hline 0 \end{array}$ |

Task-2

$$\begin{array}{r} 2. \ 2) 20 \ (10) \\ \underline{-20} \\ 0 \end{array}$$

$$\begin{array}{r} 3. \ 2) 12 \ (6) \\ \underline{-12} \\ 0 \end{array}$$

$$\begin{array}{r} 4. \ 5) 15 \ (3) \\ \underline{-15} \\ 0 \end{array}$$

$$\begin{array}{r} 5. \ 6) 18 \ (3) \\ \underline{-18} \\ 0 \end{array}$$

Task-3

$$\begin{array}{r} 2. \ 9) 27 \ (3) \\ \underline{-27} \\ 0 \end{array}$$

$$\begin{array}{r} 3. \ 6) 30 \ (5) \\ \underline{-30} \\ 0 \end{array}$$

$$\begin{array}{r} 4. \ 9) 36 \ (4) \\ \underline{-36} \\ 0 \end{array}$$

$$\begin{array}{r} 5. \ 6) 42 \ (7) \\ \underline{-42} \\ 0 \end{array}$$

Task-4

$$\begin{array}{r} 2. \ 6) 36 \ (6) \\ \underline{-36} \\ 0 \end{array}$$

$$\begin{array}{r} 3. \ 5) 40 \ (8) \\ \underline{-40} \\ 0 \end{array}$$

$$\begin{array}{r} 4. \ 1) 7 \ (7) \\ \underline{-7} \\ 0 \end{array}$$

$$\begin{array}{r} 5. \ 2) 14 \ (7) \\ \underline{-14} \\ 0 \end{array}$$

$$\begin{array}{r} 6. \ 7) 35 \ (5) \\ \underline{-35} \\ 0 \end{array}$$

$$\begin{array}{r} 7. \ 7) 28 \ (4) \\ \underline{-28} \\ 0 \end{array}$$

$$\begin{array}{r} 8. \ 15) 15 \ (1) \\ \underline{-15} \\ 0 \end{array}$$

$$\begin{array}{r} 9. \ 2) 18 \ (9) \\ \underline{-18} \\ 0 \end{array}$$

$$\begin{array}{r} 10. \ 6) 24 \ (4) \\ \underline{-24} \\ 0 \end{array}$$

$$\begin{array}{r} 11. \ 3) 18 \ (6) \\ \underline{-18} \\ 0 \end{array}$$

$$\begin{array}{r} 12. \ 5) 25 \ (5) \\ \underline{-25} \\ 0 \end{array}$$

$$\begin{array}{r} 13. \ 5) 45 \ (9) \\ \underline{-45} \\ 0 \end{array}$$

$$\begin{array}{r} 14. \ 4) 32 \ (8) \\ \underline{-32} \\ 0 \end{array}$$

Learning Target 5.1

$$\begin{array}{r} 2. \ 5) 20 \ (4) \\ \underline{-20} \\ 0 \end{array}$$

$$\begin{array}{r} 3. \ 4) 32 \ (8) \\ \underline{-32} \\ 0 \end{array}$$

$$\begin{array}{r} 4. \ 5) 40 \ (8) \\ \underline{-40} \\ 0 \end{array}$$

$$\begin{array}{r} 5. \ 4) 28 \ (7) \\ \underline{-28} \\ 0 \end{array}$$

$$\begin{array}{r} 6. \ 7) 49 \ (7) \\ \underline{-49} \\ 0 \end{array}$$

$$\begin{array}{r} 7. \ 5) 15 \ (3) \\ \underline{-15} \\ 0 \end{array}$$

$$\begin{array}{r} 8. \ 5) 25 \ (5) \\ \underline{-25} \\ 0 \end{array}$$

$$\begin{array}{r} 9. \ 6) 48 \ (8) \\ \underline{-48} \\ 0 \end{array}$$

$$\begin{array}{r} 10. \ 8) 72 \ (9) \\ \underline{-72} \\ 0 \end{array}$$

$$\begin{array}{r} 11. \ 9) 36 \ (4) \\ \underline{-36} \\ 0 \end{array}$$

$$\begin{array}{r} 12. \ 6) 12 \ (2) \\ \underline{-12} \\ 0 \end{array}$$

$$\begin{array}{r} 13. \ 6) 60 \ (10) \\ \underline{-60} \\ 0 \end{array}$$

$$\begin{array}{r} 14. \ 7) 21 \ (3) \\ \underline{-21} \\ 0 \end{array}$$

$$\begin{array}{r} 15. \ 5) 10 \ (2) \\ \underline{-10} \\ 0 \end{array}$$

Catch the concept

- | | | |
|----------------------|------------|--------------------------|
| 1. Division | 2. ones | 3. to distribute equally |
| 4. equal to dividend | 5. 0 | 6. 5 7. 3 |
| 8. 1 | 9. Divisor | 10. 0 11. quotient |

Apply Your Mind!

1. 2 lady bugs have 12 legs.

Hence 1 lady bugs have = $12 \div 2 = 6$ legs

5 lady bugs have legs = $6 \times 5 = 30$

pairs of legs = $30 \div 2 = 15$

2. Number of students = 16 girls, 24 boys
 Number of groups = 4
 Students in each group = $16 \div 4$, $24 \div 4$
 = 4 6

Total number of students in each group = $4 + 6 = 10$

3. 8) 760 (95 Hence it lies between 90 and 100.

$$\begin{array}{r} \underline{-72} \downarrow \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

4. Half of 500 = 2) 500 (250

$$\begin{array}{r} \underline{-4} \downarrow \\ 10 \\ \underline{10} \downarrow \\ 0 \end{array}$$

Double of 100 = $2 \times 100 = 200$

Half of 500 is bigger than double of 100

5. $5 \overline{)85} (17$

$$\begin{array}{r} -5\downarrow \\ \underline{35} \\ 35 \\ \underline{0} \end{array}$$

$$25 - 17 = 8$$



6.

Fractions

1. Number of shaded parts = 5
Total number of parts = 8
Fraction of shaded parts = $\frac{5}{8}$

2. Number of shaded parts = 5
Total number of parts = 8
Fraction of shaded parts = $\frac{5}{8}$

3. Number of shaded parts = 5
Total number of parts = 6
Fraction of shaded parts = $\frac{5}{6}$

4. Number of shaded parts = 3
Total number of parts = 4
Fraction of shaded parts = $\frac{3}{4}$

5. Number of shaded parts = 4
Total number of parts = 5
Fraction of shaded parts = $\frac{4}{5}$

6. Number of shaded parts = 2
Total number of parts = 3
Fraction of shaded parts = $\frac{2}{3}$

Task-2

1. Do it yourself.
2. Do it yourself.
3. Do it yourself.
4. Do it yourself.

Learning through puzzle

1. Ducks pink in colour = 4
Total number of ducks = 8
Fraction of ducks in pink = $\frac{4}{8}$
2. Ducks green in colour = 3
Total number of ducks = 8
Fraction of ducks in green = $\frac{3}{8}$
3. Ducks white in colour = 1
Total number of ducks = 8
Fraction of ducks in white = $\frac{1}{8}$

Just 4 Fun

$\frac{1}{4}$ or one - fourth part

Catch the Concept

- | | | |
|----------------|------------------|------------------|
| 1. fraction | 2. Numerator | 3. Numerator |
| 4. Denominator | 5. $\frac{1}{2}$ | 6. $\frac{1}{4}$ |
| 7. 4 | | |

Apply Your Mind!

1. Number of shaded parts = 6
Total number of parts = 10
Fraction of shaded parts = $\frac{6}{10}$
2. Number of unshaded parts = 4
Total number of parts = 10
Fraction of unshaded parts = $\frac{4}{10}$
3. Total number of pieces = 6
Pieces given to his sister and brother = $1 + 1 = 2$
He ate pieces = 2
Fraction of cake left = $\frac{2}{6}$



7.

Money

Task-1

- (a) ₹ 20.50 (b) ₹ 300.25 (c) ₹ 35.75 (d) ₹ 12.60
- (b) Twelve rupees and thirty paise
(c) Sixty rupees
(d) One hundred fifty rupees and fifty paise
(e) One hundred fifty rupees and seventy five paise
(f) One hundred fifteen rupees and eighty paise

Learning through puzzle

Total money Raj has = $100 + 50 + 10 + 10 + 5 + 2 + 1 = ₹ 178$

Bag cost = ₹ 250

So he can't buy bag.

Task-2

- $500 + 100 + 5 = ₹ 605$
- $100 + 50 + 10 + 2 = ₹ 162$
- $50 + 50 + 10 + 1 + 1 + 1 = ₹ 113$
- $500 + 10 + 10 + 5 + 2 = ₹ 527$

Just 4 Fun

Both have equal money

Learning Target 7.1

- | | | |
|--------------|--------------|--------------|
| 1. (b) ₹ 500 | (c) ₹ 500 | (d) ₹ 100 |
| ₹ 100 | ₹ 100 | ₹ 100 |
| ₹ 100 | ₹ 50 | ₹ 10 |
| ₹ 50 | ₹ 10 | ₹ 5 |
| <u>+ ₹ 5</u> | ₹ 5 | <u>₹ 5</u> |
| <u>₹ 755</u> | <u>₹ 5</u> | <u>₹ 220</u> |
| | <u>₹ 670</u> | |

Task-3

- Kesav bought a chocolate = ₹ 25
Kesav bought a burger = + ₹ 30
Total amount he pay = ₹ 55
- Tarun bought a cup cake = ₹ 15
Tarun bought a burger = + ₹ 30
Total amount he pay = ₹ 45

4. Jaswitha bought a chocolate = ₹ 25
 Jaswitha bought a cup cake = + ₹ 15
 Total amount she pay = ₹ 40

Learning Target 7.2

- | | | |
|--|--|--|
| <p>1. (b) ₹ P
 14 30
 + 3 50
 <u>17 80</u></p> | <p>(c) ₹ P
 14 30
 + 20 50
 <u>34 80</u></p> | <p>(d) ₹ P
 16 30
 + 11 00
 <u>27 30</u></p> |
|--|--|--|

- | | | |
|--|--|--|
| <p>2 (b) ₹ P
 35 60
 - 15 50
 <u>20 10</u></p> | <p>(c) ₹ P
 26 00
 - 11 00
 <u>15 00</u></p> | <p>(d) ₹ P
 48 50
 - 28 00
 <u>20 50</u></p> |
|--|--|--|

Learning Target 7.3

1. Father gave me = ₹ 20.00
 Mother gave me = + ₹ 15.00
 Total money I have = ₹ 35.00
2. I bought a pencil = ₹ 4.50
 I bought toffees = ₹ 12.00
 I bought chocolates = + ₹ 10.00
 Total money spend = ₹ 26.50
3. I gave money to the shopkeeper = ₹ 50
 I bought a book = - ₹ 30
 I get back money = ₹ 20
4. My father gave me money for picnic = ₹ 500
 Money spent by me = - ₹ 305
 Money left = ₹ 195
5. Sita had money in her kiddy bank = ₹ 53
 Money spent by her = - ₹ 18
 Money left with her = ₹ 35

Catch the concept

1. (a) 100 (b) Five (c) ₹ 50
 (d) ₹ 20 (e) Four

Apply Your Mind!

- 1 Rupee = 100 paise
So ₹ 13 = 13×100
= 1300 paise
- X = twenty paise coins = $5 \times 20 = 100$ paise = 1 rupee
Y = ten paise coins = $2 \times 10 = 20$ paise
X + Y = 100 paise + 20 paise = ₹ 1.20
Hence X = 5, Y = 2
- 1 rupee = five 20 paise coins.
5 rupee = $5 \times 5 =$ twenty five 20 paise coins
- Burger cost = ₹ 5
Chocolate cost = ₹ 25 – ₹ 5 = ₹ 20



8. Measurement

Task-1

Do it yourself.

Task-2

- (a) Writing pad > Pencil box > Pen > Eraser
(b) Bottle > Gift box > Spoon > Sharpner
(c) Saree > Frock > Tie > Socks
- Do it yourself.

Task-3

- 4 cm
- 12 cm
- 10 cm

Just 4 Fun

Rahul

Learning Target 8.1

- Do it yourself.
- (b)

m	cm
67	22
<hr/>	
+ 31	75
<hr/>	
98 m	97 cm

 (c)

m	cm
16	24
<hr/>	
+ 30	68
<hr/>	
46 m	92 cm

 (d)

m	cm
52	20
<hr/>	
+ 15	10
<hr/>	
67 m	30 cm

$\begin{array}{r} 3. \text{ (b)} \quad \text{m} \quad \text{cm} \\ 36 \quad 93 \\ - 23 \quad 76 \\ \hline 13 \text{ m } 17 \text{ cm} \end{array}$	$\begin{array}{r} \text{(c)} \quad \text{m} \quad \text{cm} \\ 20 \quad 88 \\ - 15 \quad 25 \\ \hline 5 \text{ m } 63 \text{ cm} \end{array}$	$\begin{array}{r} \text{(d)} \quad \text{m} \quad \text{cm} \\ 87 \quad 60 \\ - 43 \quad 41 \\ \hline 44 \text{ m } 19 \text{ cm} \end{array}$
--	---	--

Learning Target 8.2

2. Ajay's building height	= 22 m
Arun's building height	= <u>- 18 m</u>
Difference	= <u>4 m</u>
∴ Ajay's building is 4 m higher than Arun's building	

3. Rohan sold ribbon	= $\begin{array}{r} \text{m} \quad \text{cm} \\ 20 \quad 15 \end{array}$
Rohit sold ribbon	= <u>+ 35 30</u>
Both sold altogether	= <u>55 m 45 cm</u>

4. Mrs. John needed cloth for main door	= $\begin{array}{r} \text{m} \quad \text{cm} \\ 2 \quad 65 \end{array}$
Mrs. John needed cloth for window curtain	= <u>+ 1 25</u>
Total material she buy	= <u>3 m 90 cm</u>

5. Gopal's kite string	= 27 m
He added another string	= <u>15 m</u>
Total string	= <u>42 m</u>

Task-4

- | | |
|-----------------------|----------------|
| 1. (a) H, L | (b) L, H |
| 2. Do it yourself | |
| 3. (a) Watermelon | (b) Strawberry |
| (c) Apple, watermelon | |

Learning through puzzle

Ball P is the heaviest

Just 4 Fun

Pen.

Learning Target 8.3

$\begin{array}{r} 1. \text{ (b)} \quad \text{kg} \quad \text{g} \\ 32 \quad 250 \\ + 15 \quad 500 \\ \hline 47 \quad 750 \end{array}$	$\begin{array}{r} \text{(c)} \quad \text{kg} \quad \text{g} \\ 60 \quad 500 \\ + 20 \quad 250 \\ \hline 80 \quad 750 \end{array}$	$\begin{array}{r} \text{(d)} \quad \text{kg} \quad \text{g} \\ 65 \quad 650 \\ + 15 \quad 200 \\ \hline 80 \quad 850 \end{array}$
---	---	---

<p>2. (b) $\begin{array}{r} \text{kg} \quad \text{g} \\ 30 \quad 600 \\ - 16 \quad 350 \\ \hline 14 \quad 250 \end{array}$</p>	<p>(c) $\begin{array}{r} \text{kg} \quad \text{g} \\ 50 \quad 825 \\ - 29 \quad 550 \\ \hline 21 \quad 275 \end{array}$</p>	<p>(d) $\begin{array}{r} \text{kg} \quad \text{g} \\ 75 \quad 600 \\ - 20 \quad 310 \\ \hline 55 \quad 290 \end{array}$</p>
---	--	--

Learning Target 8.4

	$\text{kg} \quad \text{g}$
2. Total sweets brought for distribution	= 15 250
Sweets to be distributed	= $\underline{- 12 \quad 200}$
Sweets left	= $\underline{\quad 3 \text{ kg} \quad 50 \text{ g}}$
3. A pizza weighs	= 250 g
Extra cheese put on it	= $\underline{+ 120 \text{ g}}$
Total weighs of pizza	= $\underline{\quad 370 \text{ g}}$
4. Mrs. Ravi buys rice for a month	= 20 kg
Rice left at the end of month	= $\underline{- 6 \text{ kg}}$
Rice use during the month	= $\underline{\quad 14 \text{ kg}}$

Task-5

Do it yourself.

Task-6

Do it yourself.

Learning Target 8.5

<p>1. (b) $\begin{array}{r} 1 \quad \text{ml} \\ 24 \quad 180 \\ + 12 \quad 200 \\ \hline 36 \quad 380 \end{array}$</p>	<p>(c) $\begin{array}{r} 1 \quad \text{ml} \\ 26 \quad 275 \\ + 15 \quad 150 \\ \hline 41 \quad 425 \end{array}$</p>	<p>(d) $\begin{array}{r} 1 \quad \text{ml} \\ 65 \quad 450 \\ + 20 \quad 200 \\ \hline 85 \quad 650 \end{array}$</p>
<p>2. (b) $\begin{array}{r} 1 \quad \text{ml} \\ 62 \quad 950 \\ - 41 \quad 300 \\ \hline 21 \quad 650 \end{array}$</p>	<p>(c) $\begin{array}{r} 1 \quad \text{ml} \\ 42 \quad 850 \\ - 25 \quad 450 \\ \hline 17 \quad 400 \end{array}$</p>	<p>(d) $\begin{array}{r} 1 \quad \text{ml} \\ 35 \quad 530 \\ - 25 \quad 400 \\ \hline 10 \quad 130 \end{array}$</p>

Learning Target 8.6

2. A fruit punch recipe needs apple juice	= 250 ml
A fruit punch recipe needs grape juice	= $\underline{+ 150 \text{ ml}}$
Total juice required	= $\underline{\quad 400 \text{ ml}}$

3. A large bowl had soup	1 ml
More soup poured into it	= 2 000
Total soup in the bowl	= <u>+ 1 150</u>
	= <u>3 1 150 ml</u>
4. A can had milk	= 50 l
Milk used from can	= <u>- 20 l</u>
Milk left in the can	= <u>30 l</u>
5. A tub had water	= 50 l
Water used from tub	= <u>- 23 l</u>
water left in tub	= <u>27 l</u>

Catch the concept

- | | | | | |
|----------|---------|----------|----------|--------|
| 1. Meter | 2. Gram | 3. liter | 4. 100 | 5. 600 |
| 6. 1000 | 7. 1000 | 8. 4 × | 9. × 500 | |

Apply Your Mind!

- | | | |
|--------|--------------|--------|
| 1. (a) | 2. Ball B | 3. 6 W |
| 4. 2 | 5. Hand span | |



9. Time and Calendar

Task-1

- | | | |
|---------|---------|---------|
| 1. 6:15 | 2. 7:15 | 3. 4:15 |
| 4. 5:15 | 5. 9:00 | |

Task-2

- | | | |
|---------------|--------------|--------------|
| 1. 9 O'clock | 2. 7 O'clock | 3. 4 O'clock |
| 4. 10 O'clock | | |

Task-3

1. (a) 6:00 (b) 3:30 (c) 9:30 (d) 5:45
2. Do it yourself.
3. Do it yourself.

Task-4

1. (c) Wednesday (d) Thursday (e) Friday
(f) Saturday (g) Sunday
2. (a) Tuesday (b) Four (c) Tuesday
3. Do it yourself.

Task-5

1. (a) January (b) August (c) September
(d) June-13 (c) Thursday (f) 14 days
2. (a) 10 min (b) 5 days (c) 1 min
(d) 2 hours

Catch the Concept

1. 60 2. 60 3. minutes 4. 60
5. Anti-meridian 6. Post-meridian 7. P.M. 8. A.M
9. 24

Apply Your Mind!

1. 1 week = 7 days

$$7 \overline{) 86} \text{ (12)}$$

$$\underline{- 7}$$

$$16$$

$$\underline{- 14}$$

$$2$$

Hence 12 weeks and 2 days.

2. 1 hours = 60 min

$$60 \overline{) 360} \text{ (6)}$$

$$\underline{360}$$

$$0$$

Hence 360 minutes = 6 hr.

3. Correct time 4:00, clock is 30 min slow

Now time 3:30

4. 20 min



10. Shapes and Patterns

Task-1

1. (a) iv (b) iii (c) ii (d) i
2. (a) circle (b) Rectangle (c) Triangle (d) Square
3. (a) Slide ✓ (b) Slide ✓
Roll ✓ Roll ✗
Both ✓ Both ✗
(c) Slide ✓ (d) Slide ✗
Roll ✓ Roll ✓
Both ✓ Both ✗

Task-2

- (a) Horizontal lines $\frac{7}{8}$
(b) Vertical lines $\frac{8}{2}$
(c) Slanting lines $\frac{2}{2}$
- Do it yourself.


Task-3

- (a) Triangle \Rightarrow 3 sides, 3 corners
(b) Square \Rightarrow 4 sides, 4 corners
(c) Circle \Rightarrow 0 sides, 0 corners

Task-4

- (a) Cube (b) cuboid (c) sphere
(d) cone (e) cylinder
- (a) cube (b) sphere (c) cylinder
(d) cuboid (e) cone (f) cylinder


Learning Target 10.1

- (a) \square (b) \bigcirc (c)  (d) \triangle (e) \triangle
- (a) $\overset{+2}{1}, \overset{+2}{3}, \overset{+2}{5}, \overset{+2}{7}, \overset{+2}{9}, \overset{+2}{11}, \overset{+2}{13}$
(b) $\overset{+2}{10}, \overset{+2}{12}, \overset{+2}{14}, \overset{+2}{16}, \overset{+2}{18}, \overset{+2}{20}, \overset{+2}{22}$
(c) $\overset{+10}{10}, \overset{+10}{20}, \overset{+10}{30}, \overset{+10}{40}, \overset{+10}{50}, \overset{+10}{60}, \overset{+10}{70}$

Catch the Concept

- (a) Rectangel has 4 sides and 4 corners
(b) Triangle has 3 sides and 3 corners
(c) Circle has 0 sides and 0 corners
- 12 3. 4 4. 0 5. vertex
6. Cone has 2 surfaces, 1 flat face and 1 curved face.
7. 2 8. circle 9. cone 10. one
- (a) $\overset{1}{1}, \overset{2}{2}, \overset{3}{3}, \overset{4}{3}, \overset{5}{4}, \overset{6}{4}, \overset{7}{4}, \overset{8}{5}, \overset{9}{5}, \overset{10}{5}, \overset{11}{5}, \overset{12}{5}$
(b) $\overset{+2}{2}, \overset{+2}{4}, \overset{+2}{6}, \overset{+2}{8}, \overset{+2}{10}, \overset{+2}{12}, \overset{+2}{14}, \overset{+2}{16}, \overset{+2}{18}, \overset{+2}{20}$
(c) $\overset{+10}{10}, \overset{+10}{20}, \overset{+10}{30}, \overset{+10}{40}, \overset{+10}{50}, \overset{+10}{60}, \overset{+10}{70}, \overset{+10}{80}$
(d) $\overset{+5}{5}, \overset{+5}{10}, \overset{+5}{15}, \overset{+5}{20}, \overset{+5}{25}, \overset{+5}{30}, \overset{+5}{35}, \overset{+5}{40}, \overset{+5}{45}$

Apply Your Mind!

1. In Square all sides are equal
In rectangle opposite sides are equal.
2. No, because square has only 4 sides.
3. Circle = 3 Rectangle = 1 Triangles = 7
4. $83, 80, 77, 74, 71, 68$
 $\overset{-3}{\curvearrowright} \overset{-3}{\curvearrowright} \overset{-3}{\curvearrowright} \overset{-3}{\curvearrowright} \overset{-3}{\curvearrowright}$
5. 



Model Test Paper-I

1. (a) Fourteen (b) Twenty three (c) Fifty
(d) Forty six (e) Twenty Eight (f) Forty eight
(g) Ninety one (h) Ninety nine
2. (a) 26 (b) 34 (c) 43
(d) 56 (e) 80 (f) 94
3. (a) $10 \times 10 = 100$ (hundred)
(b) $60 \times 10 = 600$ (six hundreds)
(c) $20 \times 10 = 200$ (two hundreds)
(d) $90 \times 10 = 900$ (nine hundreds)
4. (a) 596, 530, 408, 301
(b) 555, 532, 325, 253
(c) 963, 936, 693, 369
(d) 625, 515, 505, 265
(e) 563, 506, 356, 306
5. (a) $168 > 158$ (b) $243 < 253$
(c) $805 > 790$ (d) $685 = 685$
6.

4 5	Apple trees	2 6 3	Rose plants
<u>+ 3 6</u>	Coconut trees	<u>+ 1 4 8</u>	Marigold plants
<u>8 1</u>	Total trees	<u>4 1 1</u>	Total plants



Model Test Paper-II

1. Do it yourself.

2. $\frac{4}{10}$

3. (a) ₹ 20.50 (b) ₹ 300.25 (c) ₹ 35.75
(d) ₹ 12.60

4. (a) Chocolate	= ₹ 25	(b) Cup cake	= ₹ 15
Burger	= ₹ 30	Burger	= ₹ 30
Total (+)	= ₹ 55	Total (+)	= ₹ 45

5. (a) Five 20 (b) Five (c) ₹ 50
(d) ₹ 20 (e) four

6. Rohan sold ribbons	20 m 15 cm
Rohit sold ribbons	+ 35 m 30 cm
Total ribbons sold	<u>55 m 45 cm</u>
Cloth needed for main door	= 2 m 65 cm
Cloth needed for window curtains	= + 1 m 25 cm
Total cloth she buy	= <u>3 m 90 cm</u>

