Focus on MATHEMATICS

Teacher's Manual
Class 1

TEACHER'S HELP BOOK

MATHEMATICS-1

Page–5

Fill in the missing numbers:

1	**2**	**3**	**4**	5	**6**	**7**	**8**	**9**	10
11	**12**	**13**	14	**15**	**16**	**17**	18	**19**	**20**
21	22	**23**	**24**	**25**	26	**27**	**28**	**29**	30
31	**32**	**33**	34	**35**	**36**	**37**	38	**39**	**40**
41	**42**	**43**	**44**	**45**	**46**	47	**48**	**49**	50

Fill in the missing numbers:

36 → **37** → 38 → **39** → 40; 46 → **47** → 48 → **49** → 50;

9 → **10** → **11** → 12 → **13**; 21 → **22** → **23** → **24** → 25;

16 → **17** → 18 → **19** → **20**; 11 → **12** → **13** → 14 → **15**;

18 → **19** → 20 → **21** → **22**;

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Read aloud and write the numbers for the number names:

One	**1**		Twenty-six	**26**
Two	**2**		Twenty-seven	**27**
Three	**3**		Twenty-eight	**28**
Four	**4**		Twenty-nine	**29**
Five	**5**		Thirty	**30**
Six	**6**		Thirty-one	**31**
Seven	**7**		Thirty-two	**32**
Eight	**8**		Thirty-three	**33**
Nine	**9**		Thirty-four	**34**
Ten	**10**		Thirty-five	**35**

Eleven	**11**		Thirty-six	**36**
Twelve	**12**		Thirty-seven	**37**
Thirteen	**13**		Thirty-eight	**38**
Fourteen	**14**		Thirty-nine	**39**
Fifteen	**15**		Forty	**40**
Sixteen	**16**		Forty-one	**41**
Seventeen	**17**		Forty-two	**42**
Eighteen	**18**		Forty-three	**43**
Nineteen	**19**		Forty-four	**44**
Twenty	**20**		Forty-five	**45**
Twenty-one	**21**		Forty-six	**46**
Twenty-two	**22**		Forty-seven	**47**
Twenty-three	**23**		Forty-eight	**48**
Twenty-four	**24**		Forty-nine	**49**
Twenty-five	**25**		Fifty	**50**

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Fill in the missing numbers:

51	**52**	**53**	**54**	55	**56**	**57**	**58**	**59**	60
61	62	**63**	**64**	**65**	**66**	**67**	68	**69**	**70**
71	**72**	**73**	**74**	**75**	76	**77**	**78**	**79**	80
81	**82**	**83**	**84**	**85**	**86**	87	**88**	**89**	**90**
91	**92**	93	**94**	**95**	**96**	**97**	**98**	**99**	100

Fill in the missing numbers in each set of flowers:

21 → **22** → 23 → **24** → **25**; **41** → **42** → **43** → **44** → 45
44 → **45** → **46** → **47** → **48**; 61 → **62** → **63** → **64** → **65**
6 → **7** → **8** → **9**→ 10; **71** → **72** → 73 → **74** → **75**
68 → **69** → **70** → **71** → **72**; 55 → **56** → **57** → **58** → **59**
92 → **93** → 94 → **95** → **96**; **83** → **84** → **85** → **86** → **87**

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Read aloud and write the numbers for the number names:

Fifty-one	**51**		Seventy-six	**76**
Fifty-two	**52**		Seventy-seven	**77**
Fifty-three	**53**		Seventy-eight	**78**
Fifty-four	**54**		Seventy-nine	**79**
Fifty-five	**55**		Eighty	**80**
Fifty-six	**56**		Eighty-one	**81**
Fifty-seven	**57**		Eighty-two	**82**
Fifty-eight	**58**		Eighty-three	**83**
Fifty-nine	**59**		Eighty-four	**84**
Sixty	**60**		Eighty-five	**85**
Sixty-one	**61**		Eighty-six	**86**
Sixty-two	**62**		Eighty-seven	**87**
Sixty-three	**63**		Eighty-eight	**88**
Sixty-four	**64**		Eighty-nine	**89**
Sixty-five	**65**		Ninety	**90**
Sixty-six	**66**		Ninety-one	**91**
Sixty-seven	**67**		Ninety-two	**92**
Sixty-eight	**68**		Ninety-three	**93**
Sixty-nine	**69**		Ninety-four	**94**
Seventy	**70**		Ninety-five	**95**
Seventy-one	**71**		Ninety-six	**96**
Seventy-two	**72**		Ninety-seven	**97**
Seventy-three	**73**		Ninety-eight	**98**
Seventy-four	**74**		Ninety-nine	**99**
Seventy-five	**75**		One hundred	**100**

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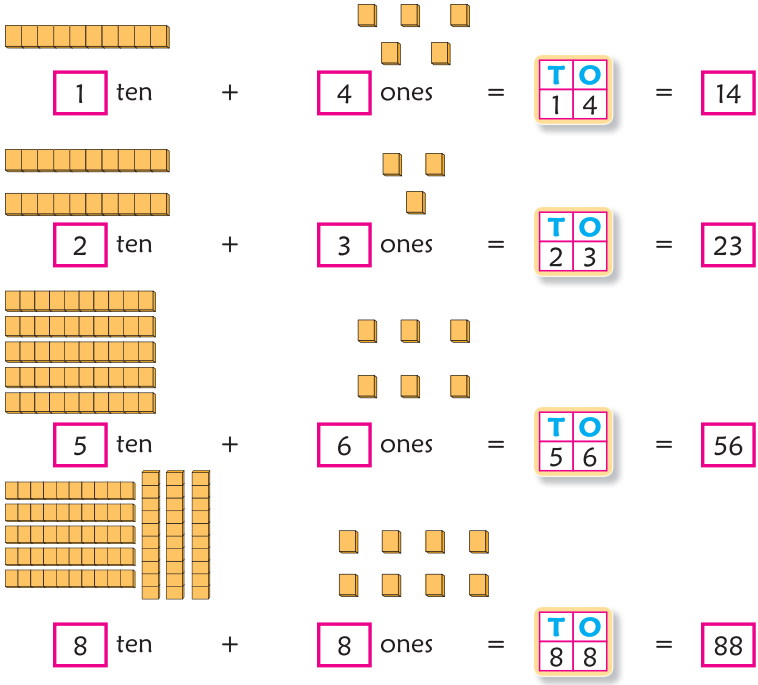
Count and add the number of tens and ones:



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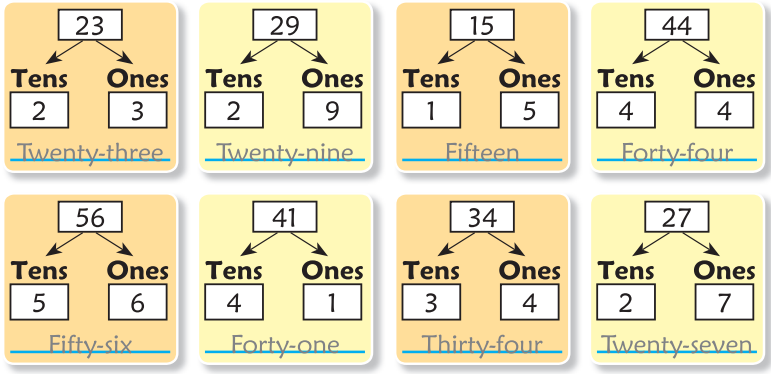
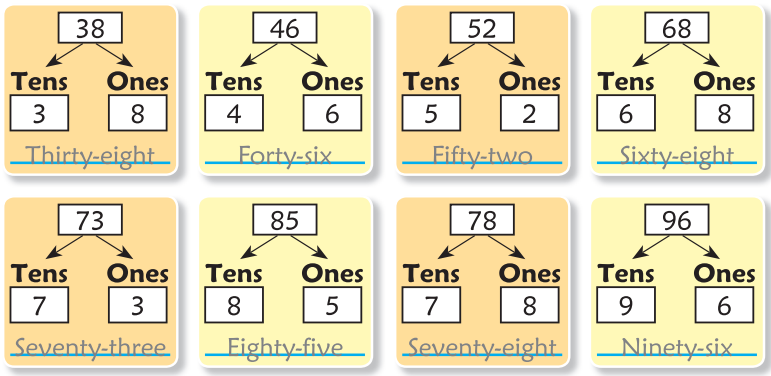
Fill in the blanks and boxes of the following figures. First one has been done for you:





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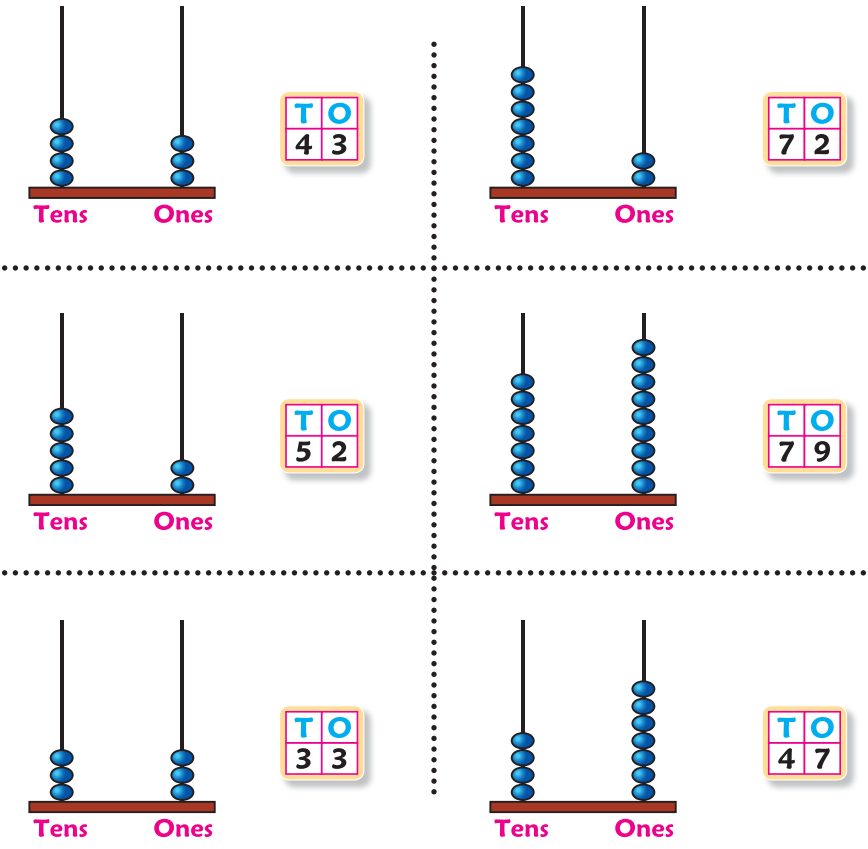
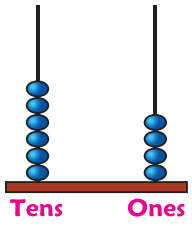
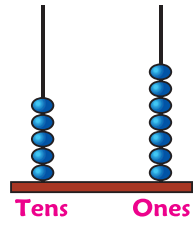
Write the number as shown on the abacus. First one has been done for you:

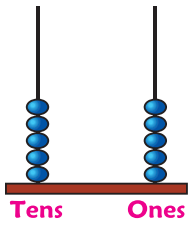




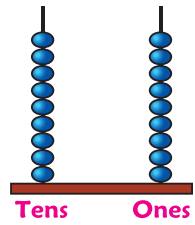
T	O
6	4



T	O
5	7



T	O
5	5



T	O
9	9

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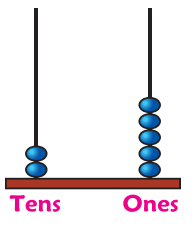
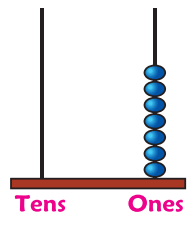
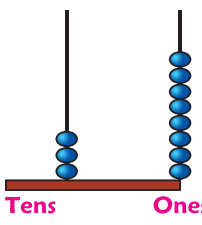
Draw beads on the abacus to show the numbers. First one has done for you:



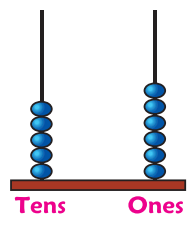
T	O
2	5



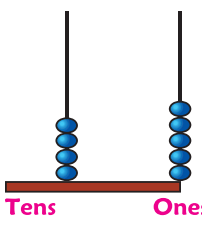
T	O
0	7



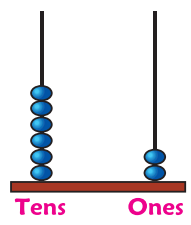
T	O
3	8



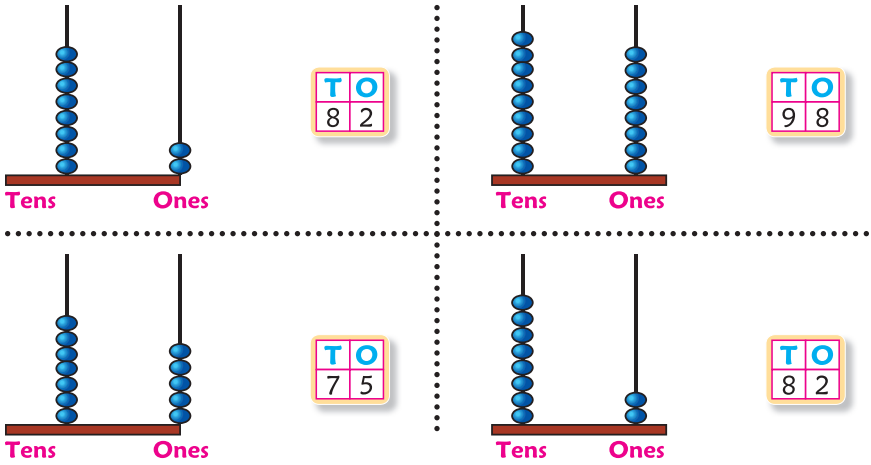
T	O
5	6



T	O
4	5



T	O
6	2



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1. Write the numbers in expanded form:

26 = 2 tens + 6 ones = 20 + 6

34 = 3 tens + 4 ones = 30 + 4

47 = 4 tens + 7 ones = 40 + 7

53 = 5 tens + 3 ones = 50 + 3

65 = 6 tens + 5 ones = 60 + 5

78 = 7 tens + 8 ones = 70 + 8

2. Write the numbers in short form:

6 tens + 3 ones = 60 + 3 = 63

7 tens + 0 one = 70 + 0 = 70

5 tens + 8 ones = 50 + 8 = 58

7 tens + 2 ones = 70 + 2 = 72

8 tens + 9 ones = 80 + 9 = 89

4 tens + 5 ones = 40 + 5 = 45

6 tens + 9 ones = 60 + 9 = 69

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Fill in the blanks:

3 tens and 2 ones = 30 + 2 = 32

6 tens and 6 ones = 60 + 6 = 66

7 tens and 8 ones = **70** + **8** = **78**

5 tens and 5 ones = **50** + **5** = **55**

4 tens and 8 ones = **40** + **8** = **48**

3 tens and 9 ones = **30** + **9** = **39**

4 tens and 2 ones = **40** + **2** = **42**

8 tens and 4 ones = **80** + **4** = **84**

Complete the boxes:

2 tens and **8** ones = **20** + **8** = 28

4 tens and **4** ones = **40** + **4** = 44

3 tens and **6** ones = **30** + **6** = 36

5 tens and **3** ones = **50** + **3** = 53

6 tens and **7** ones = **60** + **7** = 67

8 tens and **3** ones = **80** + **3** = 83

7 tens and **9** ones = **70** + **9** = 79

Solve these:

3 tens and **7** ones = 30 + 7 = **37**

4 tens and **6** ones = 40 + 6 = **46**

5 tens and **8** ones = 50 + 8 = **58**

6 tens and **4** ones = 60 + 4 = **64**

7 tens and **9** ones = 70 + 9 = **79**

8 tens and **9** ones = 80 + 9 = **89**

9 tens and **0** ones = 90 + 0 = **90**

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Fill in the blanks with > or < using the numbers line:

4 < 9; 8 > 7; 4 < 7; 3 < 6; 6 < 9; 6 > 5; 8 < 9; 7 > 5; 3 < 4; 9 > 7; 5 > 2; 4 > 3

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1. Circle the bigger number in each set:

(a) 14 (b) 13 (c) 36 (d) 72 (e) 24 (f) 75 (g) 50 (h) 86 (i) 55

2. Circle the smaller number in each set:

(a) 8 (b) 27 (c) 9 (d) 30 (e) 34 (f) 38 (g) 76 (h) 14 (i) 32

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Use > or < to fill in the blank boxes given below. First one has been done for you:

73	>	54	45	>	36	67	<	98
63	<	91	87	>	79	93	>	16
24	<	56	35	<	40	70	<	82
63	<	74	15	<	17	47	>	45
76	>	41	19	>	10	70	>	26
65	>	60	57	>	27	15	>	7
72	<	98	62	>	50	18	>	14
53	>	28	29	>	21	16	<	27
35	<	78	12	<	42	36	>	31
58	<	65	78	>	58	46	<	64
29	<	84	79	>	68	56	>	33
52	>	43	76	>	70	38	<	88
18	<	63	47	<	69	79	<	98
37	>	29	60	>	27	94	>	39
63	>	48	36	<	70	48	<	56
55	>	49	40	>	25	85	>	57
18	<	25	39	<	75	19	<	32
99	>	27	89	>	25	23	<	35

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1. 14, 04, 24, **34**; 19, 30, 16, **92**; 57, 75, 63, **90**; 61, 41, **78**, 19
54, 14, 36, 27; **58**, 32 26 12; **83**, 72, 57, 44; 13, 28, **36**, 10
36, 44, 68, **91**; 27, **59**, 37, 22

2. 54; **99**; **71**; **90**; **76**; **92**; **98**; **80**; **69**; **81**; **96**; **79**

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1. 24, 23, 26, **17**; 38, **35**, 36, 47; 34, **14**, 37, 26; **29**, 85, 38, 47
64, 27, 36, **08**; 36, 45, **15**, 19; 32, 26, 26, **23**; 45, **25**, 46, 31
14, 27, 50, 43; 75, **67**, 85, 97

2. 8; **11**; **19**; **20**; **24**; **15**; **13**; **25**; **23**; **26**; **21**; **36**

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Rearrange the numbers in ascending order:

15, 27, 35, 24, 30 → 15, 24, 27, 30, 35
12, 20, 15, 40, 6 → 6, 12, 15, 20, 40
43, 23, 16, 49, 67 → 16, 23, 43, 49, 67
50, 17, 14, 41, 40 → 14, 17, 40, 41, 50
75, 77, 73, 79, 72 → 72, 73, 75, 77, 79
45, 94, 99, 86, 65 → 45, 65, 86, 94, 99
22, 96, 67, 48, 9 → 9, 22, 48, 67, 96
78, 2, 39, 88, 19 → 2, 19, 39, 78, 88
83, 84, 89, 15, 36 → 15, 36, 83, 84, 89
78, 67, 24, 27, 35 → 24, 27, 35, 67, 78
40, 36, 48, 24, 50 → 24, 36, 40, 48, 50

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Rearrange the numbers in descending order:

19, 24, 16, 30, 29 → 30, 29, 24, 19, 16
21, 9, 30, 27, 19 → 30, 27, 21, 19, 9
43, 25, 52, 21, 11 → 52, 43, 25, 21, 11
38, 39, 69, 89, 79 → 89, 79, 69, 39, 38
53, 44, 22, 74, 64 → 74, 64, 53, 44, 22
45, 50, 14, 27, 16 → 50, 45, 27, 16, 14
31, 94, 70, 86, 65 → 94, 86, 70, 65, 31
13, 85, 17, 39, 72 → 85, 72, 39, 17, 13
23, 72, 19, 96, 78 → 96, 78, 72, 23, 19
7, 70, 55, 44, 84 → 84, 70, 55, 44, 7
81, 75, 40, 26, 29 → 81, 75, 40, 29, 26
34, 91, 31, 11, 80 → 91, 80, 34, 31, 11

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1. Do it yourself.

2. (a) 6th, (b) 5th, (c) 4th, (d) 10th, (e) 9th

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Let us try some more questions:

1. 3, **2.** 4, **3.** 16, **4.** 100, **5.** 27, **6.** 6, 9, 12

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Fill in the blanks:

8; 3; 10; 9; 20; 28; 27; 36; 49; 74; 15; 93; 26; 38; 50; 32; 57; 16; 93; 56; 45; 78; 14; 54; 51; 18; 89; 89; 90; 47

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Write the numbers:

Before	After	Between
34 35	45 **46**	15 **16** 17
62 63	51 **52**	83 **84** 85
74 75	24 **25**	45 **46** 47
70 71	23 **24**	61 **62** 63
62 63	64 **65**	53 **54** 55
16 17	73 **74**	49 **50** 51
59 60	80 **81**	69 **70** 71
55 56	60 **61**	85 **86** 87
28 29	58 **59**	62 **63** 64
98 99	85 **86**	75 **76** 77
19 20	76 **77**	94 **95** 96
84 85	43 **44**	82 **83** 84
32 33	66 **67**	77 **78** 79
51 52	75 **76**	94 **95** 96

75 76	44 **45**	28 **29** 30
87 88	34 **35**	18 **19** 20
99 100	21 **22**	98 **99** 100

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1. Circle the objects in pairs:

 ;  ; 

2. (a) odd, **9** (b) even, **6** (c) odd, **5** (d) even, **4** (e) odd, **7**

3.

2	4	6	8	10	12	14	16	18	20

4.

1	3	5	7	9	11	13	15	17	19

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Fill in this magic box:

1	2	**3**	4
4	3	2	**1**
2	1	4	**3**
3	**4**	1	**2**

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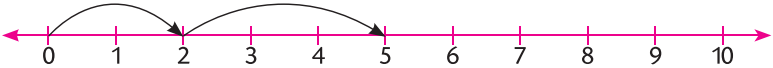
Add on number line:



2 + 3 = **5**

8 + 1 = **9**

4 + 2 = **6**

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Fill in the blanks:

1 + 1 = **2**; 7 + 1 = **8**; 4 + 1 = **5**; 9 + 1 = **10**; 2 + 2 = **4**; 2 + 1 = **3**; 6 + 2 = **8**; 5 + 1 = **6**; 8 + 1 = **9**; 7 + 2 = **9**

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Fill in the boxes:

3 + 0 = **3**; 0 + 1 = **1**; 0 + 4 = **4**; 6 + 0 = **6**; 11 + 0 = **11**;
0 + 2 = **2**; 5 + 0 = **5**; 7 + 0 = **7**; 0 + 8 = **8**; 9 + 0 = **9**

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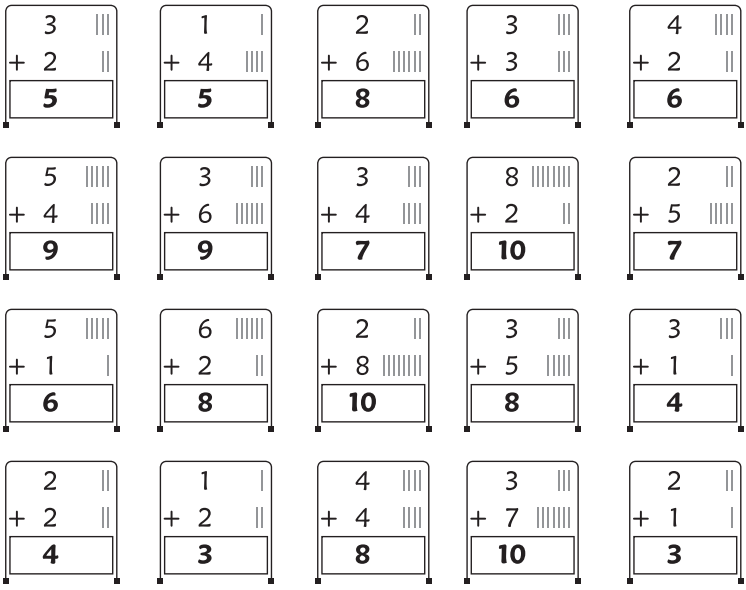
Addition of 1-digit numbers:



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Fill in the boxes:

5 7 → 5 tens + 7 ones
+ 2 1 → 2 tens + 1 one
7 8 — 7 tens + 8 ones

7 2 → 7 tens + 2 ones
+ 1 2 → 1 tens + 2 ones
8 4 — 8 tens + 4 ones

6 1 → 6 tens + 1 one
+ 2 4 → 2 tens + 4 ones
8 5 — 8 tens + 5 ones

$$\begin{array}{rl} 5\ 4 & \longrightarrow \boxed{5} \text{ tens} + \boxed{4} \text{ ones} \\ +\ 3\ 4 & \longrightarrow \boxed{3} \text{ tens} + \boxed{4} \text{ ones} \\ \hline 8\ 8 & \boxed{8} \text{ tens} + \boxed{8} \text{ ones} \end{array}$$

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Find the sum:

(a) $\begin{array}{r} 1\ 7 \\ +\ 2\ 2 \\ \hline \mathbf{3\ 9} \end{array}$ (b) $\begin{array}{r} 2\ 0 \\ +\ 3\ 4 \\ \hline \mathbf{5\ 4} \end{array}$ (c) $\begin{array}{r} 1\ 3 \\ +\ 1\ 1 \\ \hline \mathbf{2\ 4} \end{array}$

(d) $\begin{array}{r} 1\ 6 \\ +\ 1\ 2 \\ \hline \mathbf{2\ 8} \end{array}$ (e) $\begin{array}{r} 2\ 5 \\ +\ 2\ 3 \\ \hline \mathbf{4\ 8} \end{array}$ (f) $\begin{array}{r} 4\ 7 \\ +\ 3\ 1 \\ \hline \mathbf{7\ 8} \end{array}$

(g) $\begin{array}{r} 4\ 2 \\ +\ 1\ 7 \\ \hline \mathbf{5\ 9} \end{array}$ (h) $\begin{array}{r} 5\ 4 \\ +\ 2\ 4 \\ \hline \mathbf{7\ 8} \end{array}$ (i) $\begin{array}{r} 3\ 7 \\ +\ 2\ 2 \\ \hline \mathbf{5\ 9} \end{array}$

(j) $\begin{array}{r} 3\ 3 \\ +\ 4\ 1 \\ \hline \mathbf{7\ 4} \end{array}$ (k) $\begin{array}{r} 2\ 3 \\ +\ 3\ 4 \\ \hline \mathbf{5\ 7} \end{array}$ (l) $\begin{array}{r} 3\ 7 \\ +\ 4\ 1 \\ \hline \mathbf{7\ 8} \end{array}$

(m) $\begin{array}{r} 6\ 1 \\ +\ 2\ 4 \\ \hline \mathbf{8\ 5} \end{array}$ (n) $\begin{array}{r} 6\ 3 \\ +\ 2\ 5 \\ \hline \mathbf{8\ 8} \end{array}$ (o) $\begin{array}{r} 3\ 5 \\ +\ 4\ 3 \\ \hline \mathbf{7\ 8} \end{array}$

(p) $\begin{array}{r} 2\ 3 \\ +\ 4\ 6 \\ \hline \mathbf{6\ 9} \end{array}$ (q) $\begin{array}{r} 5\ 4 \\ +\ 2\ 3 \\ \hline \mathbf{7\ 7} \end{array}$ (r) $\begin{array}{r} 5\ 5 \\ +\ 4\ 2 \\ \hline \mathbf{9\ 7} \end{array}$

(s) $\begin{array}{r} 4\ 2 \\ +\ 3\ 2 \\ \hline \mathbf{7\ 4} \end{array}$ (t) $\begin{array}{r} 7\ 6 \\ +\ 1\ 3 \\ \hline \mathbf{8\ 9} \end{array}$ (u) $\begin{array}{r} 1\ 7 \\ +\ 2\ 2 \\ \hline \mathbf{3\ 9} \end{array}$

(v) $\begin{array}{r} 2\ 0 \\ +\ 3\ 4 \\ \hline \mathbf{5\ 4} \end{array}$ (w) $\begin{array}{r} 1\ 3 \\ +\ 1\ 1 \\ \hline \mathbf{2\ 4} \end{array}$ (x) $\begin{array}{r} 1\ 6 \\ +\ 1\ 2 \\ \hline \mathbf{2\ 8} \end{array}$ (y) $\begin{array}{r} 2\ 5 \\ +\ 2\ 3 \\ \hline \mathbf{4\ 8} \end{array}$

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Add the following:

(a)
$$\begin{array}{r} 20 \\ +\ 20 \\ \hline \mathbf{40} \end{array}$$

(b)
$$\begin{array}{r} 30 \\ +\ 20 \\ \hline \mathbf{50} \end{array}$$

(c)
$$\begin{array}{r} 30 \\ +\ 10 \\ \hline \mathbf{40} \end{array}$$

(d)
$$\begin{array}{r} 40 \\ +\ 30 \\ \hline \mathbf{70} \end{array}$$

(e)
$$\begin{array}{r} 40 \\ +\ 50 \\ \hline \mathbf{90} \end{array}$$

(f)
$$\begin{array}{r} 40 \\ +\ 10 \\ \hline \mathbf{50} \end{array}$$

(g)
$$\begin{array}{r} 60 \\ +\ 30 \\ \hline \mathbf{90} \end{array}$$

(h)
$$\begin{array}{r} 70 \\ +\ 20 \\ \hline \mathbf{90} \end{array}$$

(i)
$$\begin{array}{r} 30 \\ +\ 60 \\ \hline \mathbf{90} \end{array}$$

(j)
$$\begin{array}{r} 60 \\ +\ 10 \\ \hline \mathbf{70} \end{array}$$

(k)
$$\begin{array}{r} 20 \\ +\ 50 \\ \hline \mathbf{70} \end{array}$$

(l)
$$\begin{array}{r} 40 \\ +\ 50 \\ \hline \mathbf{90} \end{array}$$

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Fill in the blanks:

(a) 3 tens + 11 ones = 4 tens + **1** one

(b) 5 tens + 12 ones = **6** tens + 2 ones

(c) 8 tens + 14 ones = 9 ten + **4** ones

(d) 7 tens + 18 ones = **8** tens + 8 ones

(e) 3 tens + 10 ones = **4** tens + 0 ones

(f) 7 tens + 10 ones = 8 tens + **0** ones

(g) 6 tens + 24 ones = 8 tens + **4** ones

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Add the following by regrouping/carrying:

(a)
$$\begin{array}{r} \boxed{1} \\ 27 \\ +\ 55 \\ \hline \mathbf{82} \end{array}$$

(b)
$$\begin{array}{r} \boxed{1} \\ 66 \\ +\ 27 \\ \hline \mathbf{93} \end{array}$$

(c)
$$\begin{array}{r} \boxed{1} \\ 58 \\ +\ 29 \\ \hline \mathbf{87} \end{array}$$

(d)
$$\begin{array}{r} \boxed{1}\ 7\ 8 \\ +\ 1\ 7 \\ \hline \mathbf{9\ 5} \end{array}$$

(e)
$$\begin{array}{r} \boxed{1}\ 6\ 6 \\ +\ 2\ 8 \\ \hline \mathbf{9\ 4} \end{array}$$

(f)
$$\begin{array}{r} \boxed{1}\ 2\ 5 \\ +\ 1\ 7 \\ \hline \mathbf{4\ 2} \end{array}$$

(g)
$$\begin{array}{r} \boxed{1}\ 6\ 3 \\ +\ 2\ 9 \\ \hline \mathbf{9\ 2} \end{array}$$

(h)
$$\begin{array}{r} \square\ 2\ 7 \\ +\ 5\ 2 \\ \hline \mathbf{7\ 9} \end{array}$$

(i)
$$\begin{array}{r} \boxed{1}\ 4\ 9 \\ +\ 2\ 1 \\ \hline \mathbf{7\ 0} \end{array}$$

(j)
$$\begin{array}{r} \square\ 1\ 5 \\ +\ 4\ 3 \\ \hline \mathbf{5\ 8} \end{array}$$

(k)
$$\begin{array}{r} \boxed{1}\ 5\ 9 \\ +\ 2\ 6 \\ \hline \mathbf{8\ 5} \end{array}$$

(l)
$$\begin{array}{r} \boxed{1}\ 4\ 7 \\ +\ 2\ 9 \\ \hline \mathbf{7\ 6} \end{array}$$

(m)
$$\begin{array}{r} \boxed{1}\ 5\ 6 \\ +\ 2\ 7 \\ \hline \mathbf{8\ 3} \end{array}$$

(n)
$$\begin{array}{r} \boxed{1}\ 6\ 4 \\ +\ 1\ 9 \\ \hline \mathbf{8\ 3} \end{array}$$

(o)
$$\begin{array}{r} \boxed{1}\ 5\ 9 \\ +\ 3\ 4 \\ \hline \mathbf{9\ 3} \end{array}$$

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Solve the problems:

1. 50, **2.** 62, **3.** 73, **4.** 98

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Write the number as a sum of two numbers. The first one has been done for you.

(a) 2, **(b)** 10, **(c)** 62, **(d)**, 66

Page – 46

Write the subtraction facts for each of the following:

7 – 3 = 4; 8 – 5 = 3; 9 – 4 = 5

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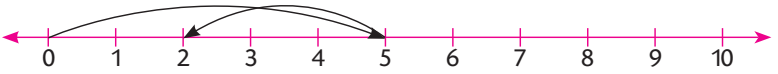
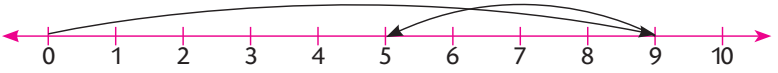
Subtract by using the number line:

4 – 1 = 3



5 – 3 = 2



9 – 4 = 5

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Subtraction of 1-digit numbers:

3 – 2 = **1**	4 – 3 = **1**	5 – 2 = **3**	6 – 2 = **4**	7 – 4 = **3**
7 – 3 = **4**	6 – 3 = **3**	7 – 5 = **2**	5 – 3 = **2**	5 – 4 = **1**
4 – 2 = **2**	7 – 2 = **5**	8 – 2 = **6**	4 – 1 = **3**	7 – 1 = **6**
5 – 1 = **4**	6 – 4 = **2**	8 – 3 = **5**	6 – 5 = **1**	6 – 1 = **5**
9 – 4 = **5**	8 – 5 = **3**	8 – 4 = **4**	9 – 5 = **4**	

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Subtract the following:

(a)
$$\begin{array}{r} 25 \\ -\ 03 \\ \hline \mathbf{22} \end{array}$$

(b)
$$\begin{array}{r} 47 \\ -\ 13 \\ \hline \mathbf{34} \end{array}$$

(c)
$$\begin{array}{r} 84 \\ -\ 11 \\ \hline \mathbf{73} \end{array}$$

(d) 58 − 24 = **34**

(e) 79 − 27 = **52**

(f) 76 − 44 = **32**

(g) 55 − 22 = **33**

(h) 33 − 12 = **21**

(i) 69 − 24 = **45**

(j) 95 − 34 = **61**

(k) 66 − 33 = **33**

(l) 35 − 32 = **03**

(m) 24 − 13 = **11**

(n) 97 − 51 = **46**

(o) 56 − 42 = **14**

(p) 87 − 56 = **31**

(q) 29 − 15 = **14**

(r) 69 − 42 = **27**

(s) 84 − 54 = **30**

(t) 75 − 60 = **15**

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Fill in the boxes:

69 → 6 tens + 9 ones

− 26 → 2 tens + 6 ones

43 → 4 tens + 3 ones

75 → 7 tens + 5 ones

− 60 → 6 tens + 0 ones

15 → 1 tens + 5 ones

79 → 7 tens + 9 ones

− 25 → 2 tens + 5 ones

54 → 5 tens + 4 ones

6 6	→	6 tens + 6 ones
– 4 4	→	4 tens + 4 ones
2 2		2 tens + 2 ones

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Subtract the following:

(a)
$$\begin{array}{r} 90 \\ -\ 20 \\ \hline \mathbf{70} \end{array}$$

(b)
$$\begin{array}{r} 60 \\ -\ 30 \\ \hline \mathbf{30} \end{array}$$

(c)
$$\begin{array}{r} 60 \\ -\ 40 \\ \hline \mathbf{20} \end{array}$$

(d)
$$\begin{array}{r} 20 \\ -\ 10 \\ \hline \mathbf{10} \end{array}$$

(e)
$$\begin{array}{r} 90 \\ -\ 30 \\ \hline \mathbf{60} \end{array}$$

(f)
$$\begin{array}{r} 70 \\ -\ 40 \\ \hline \mathbf{30} \end{array}$$

(g)
$$\begin{array}{r} 70 \\ -\ 20 \\ \hline \mathbf{50} \end{array}$$

(h)
$$\begin{array}{r} 40 \\ -\ 10 \\ \hline \mathbf{30} \end{array}$$

(i)
$$\begin{array}{r} 30 \\ -\ 10 \\ \hline \mathbf{20} \end{array}$$

(j)
$$\begin{array}{r} 60 \\ -\ 40 \\ \hline \mathbf{20} \end{array}$$

(k)
$$\begin{array}{r} 80 \\ -\ 50 \\ \hline \mathbf{30} \end{array}$$

(l)
$$\begin{array}{r} 60 \\ -\ 50 \\ \hline \mathbf{10} \end{array}$$

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Subtract the following. The first has been done for you:

(a)
$$\begin{array}{r} \boxed{2}\boxed{14} \\ 34 \\ -\ 17 \\ \hline \mathbf{17} \end{array}$$

(b)
$$\begin{array}{r} \boxed{4}\boxed{14} \\ 54 \\ -\ 39 \\ \hline \mathbf{15} \end{array}$$

(c)
$$\begin{array}{r} \boxed{8}\boxed{12} \\ 92 \\ -\ 58 \\ \hline \mathbf{34} \end{array}$$

(d)
$$\begin{array}{r} \boxed{1}\boxed{15} \\ 25 \\ -\ 16 \\ \hline \mathbf{09} \end{array}$$

(e)
$$\begin{array}{r} \boxed{5}\boxed{13} \\ 63 \\ -\ 27 \\ \hline \mathbf{36} \end{array}$$

(f)
$$\begin{array}{r} \boxed{5}\boxed{10} \\ 60 \\ -\ 36 \\ \hline \mathbf{24} \end{array}$$

(g)

6	15
7	5
– 2	6
4	**9**

(h)

4	15
5	5
– 4	7
0	**8**

(i)

3	16
4	6
– 2	7
1	**9**

(j)

6	17
7	7
– 5	8
1	**9**

(k)

5	12
6	2
– 2	5
3	**7**

(l)

4	16
5	6
– 3	8
1	**8**

(m)

7	6
– 4	5
3	**1**

(n)

2	10
3	0
– 2	6
0	**4**

(o)

7	13
8	3
– 6	8
1	**5**

(p)

1	13
2	3
– 1	9
0	**4**

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Solve the problems:

1. 12, **2.** 19, **3.** 17, **4.** 18

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First one has been done for you.

(a) + (b) – (c) + (d) – (e) – (f) – (g) + (h) + (i) + (j) + (k) – (l) – (m) + (n) + (o) +

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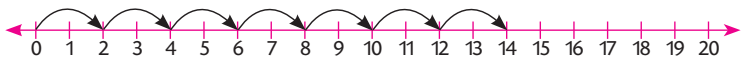
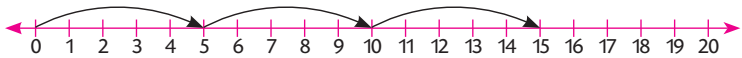
2.



$2 \times 7 = 14$

3.



$5 \times 3 = 15$

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Fill in the blanks:

Repeated Addition

2 + 2 + 2 + 2 + 2 + 2; 5 + 5 + 5 + 5 ; 7 + 7 + 7; 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5; 6 + 6 + 6 + 6 + 6 + 6 + 6; 1 + 1 + 1 + 1 + 1 + 1;

8 + 8; 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2; 5 + 5 + 5 + 5 + 5; 7 + 7 + 7 + 7; 4 + 4 + 4; 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5; 9 + 9 + 9; 6 + 6 + 6 + 6

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1. Green: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30
2. Red: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39
3. Yellow: 4, 8, 12, 16, 20, 24, 28, 32, 36, 40

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Fill in the boxes by skip counting:

2. 22 → 24 → 26 → 28 → 30 → 32
3. 12 → 15 → 18 → 21 → 24 → 27
4. 24 → 27 → 30 → 33 → 36 → 39
5. 10 → 15 → 20 → 25 → 30 → 35
6. 35 → 40 → 45 → 50 → 55 → 60
7. 10 → 20 → 30 → 40 → 50 → 60
8. 33 → 36 → 39 → 42 → 45 → 48
9. 4 → 8 → 12 → 16 → 20 → 24
10. 7 → 14 → 21 → 28 → 35 → 42
11. 12 → 16 → 20 → 24 → 28 → 32
12. 2 → 4 → 6 → 8 → 10 → 12

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Use Multiplication Tables to fill in the blanks:

3 × 4 = **12**;	2 × 6 = **12**;	5 × 6 = **30**;
3 × 2 = **6**;	5 × 8 = **40**;	5 × 2 = **10**;
4 × 5 = **20**;	3 × 1 = **3**;	3 × 7 = **21**;
2 × 5 = **10**;	3 × 9 = **27**;	2 × 7 = **14**;
1 × 9 = **9**;	4 × 3 = **12**;	2 × 6 = **12**;
5 × 5 = **25**;	4 × 4 = **16**;	4 × 2 = **8**;
3 × 9 = **27**;	6 × 3 = **18**;	5 × 2 = **10**;

$9 \times 5 = \mathbf{45}$; $8 \times 3 = \mathbf{24}$; $5 \times 4 = \mathbf{20}$;
$4 \times 9 = \mathbf{36}$; $4 \times 7 = \mathbf{28}$; $7 \times 8 = \mathbf{56}$;
$3 \times 7 = \mathbf{21}$; $10 \times 8 = \mathbf{80}$; $9 \times 7 = \mathbf{63}$;
$10 \times 6 = \mathbf{60}$; $8 \times 1 = \mathbf{8}$; $3 \times 10 = \mathbf{30}$;
$2 \times 8 = \mathbf{16}$; $3 \times 6 = \mathbf{18}$; $5 \times 10 = \mathbf{50}$;
$9 \times 4 = \mathbf{36}$; $6 \times 8 = \mathbf{48}$; $10 \times 9 = \mathbf{90}$;
$4 \times 6 = \mathbf{24}$; $2 \times 6 = \mathbf{12}$; $6 \times 8 = \mathbf{48}$

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Multiply (Using tables):

(a) $6 \times 4 = \mathbf{24}$ (b) $9 \times 4 = \mathbf{36}$ (c) $8 \times 3 = \mathbf{24}$

(d) $7 \times 5 = \mathbf{35}$ (e) $5 \times 4 = \mathbf{20}$ (f) $6 \times 3 = \mathbf{18}$

(g) $7 \times 4 = \mathbf{28}$ (h) $9 \times 3 = \mathbf{27}$ (i) $3 \times 9 = \mathbf{27}$

(j) $6 \times 1 = \mathbf{6}$ (k) $4 \times 4 = \mathbf{16}$ (l) $3 \times 6 = \mathbf{18}$

(m) $5 \times 2 = \mathbf{10}$ (n) $5 \times 3 = \mathbf{15}$ (o) $6 \times 2 = \mathbf{12}$ (p) $7 \times 6 = \mathbf{42}$

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Solve the problems:

1. 54 **2.** 36 **3.** 45 **4.** 35 **5.** 91

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Fill in the blanks to complete the multiplication facts.

1. 6 plants with 3 leaves each.

Total numbers of leaves = 3 + 3 + 3 + 3 + 3 + 3 = **18**

We write it as, 3 × **6** = **18**

We read it as," **6** times 3 is **18**".

2. 4 bunches of 4 flowers each.

Total number of flowers = 4 + 4 + 4 + 4 = **16**

We write it as **4** × 4 = **16**

We read it as, "**4** times **4** is **16**".

MATH LAB ACTIVITY

Complete the multiplication table:

×	1 one	2 two	3 three	4 four	5 five	6 six	7 seven	8 eight	9 nine	10 ten
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

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1. Divide the following by repeated subtraction:

(a) 27 – 3 = 24 ⟶ 1 time; 24 – 3 = 21 ⟶ 2 time;

21 – 3 = 18 ⟶ 3 time; 18 – 3 = 15 ⟶ 4 time;

15 – 3 = 12 ⟶ 5 time; 12 – 3 = 9 ⟶ 6 time

9 – 3 = 6 ⟶ 7 time; 6 – 3 = 3 ⟶ 3 time

3 – 3 = 0 ⟶ 9 time;

So, 27 ÷ 3 = 9

(b) 12 – 4 = 8 ⟶ 1 time; 8 – 4 = 4 ⟶ 2 time;

4 – 4 = 0 ⟶ 3 time; So, 12 ÷ 4 = 3

(c) 42 – 7 = 35 ⟶ 1 time; 35 – 7 = 28 ⟶ 2 time;
28 – 7 = 21 ⟶ 3 time; 21 – 7 = 14 ⟶ 4 time
14 – 7 = 7 ⟶ 5 time; 7 – 7 = 0 ⟶ 6 time
So, 42 ÷ 7 = 6

(d) 16 – 4 = 12 ⟶ 1 time; 12 – 4 = 8 ⟶ 2 time;
8 – 4 = 4 ⟶ 3 time; 4 – 4 = 0 ⟶ 4 time;
So, 16 ÷ 4 = 4

2. Divide by repeated subtraction:

(a) 20 ÷ 5, 20 – 5 = 15, 15 – 5 = 10,
10 – 5 = 5, 5 – 5 = 0, 20 ÷ 5 = 4

(b) 18 ÷ 6, 18 – 6 = 12, 12 – 6 = 6, 6 – 6 = 0, 18 ÷ 6 = 3

(c) 16 ÷ 4, 16 – 4 = 12, 12 – 4 = 8,
8 – 4 = 4, 4 – 4 = 0, 16 ÷ 4 = 4

(d) 12 ÷ 4, 12 – 4 = 8, 8 – 4 = 4,
4 – 4 = 0, 12 ÷ 4 = 3

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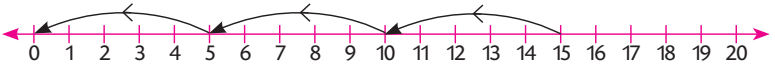
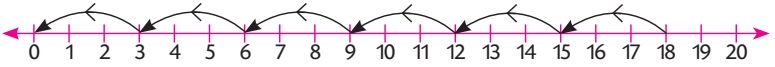
1. 15 ÷ 5 = 3

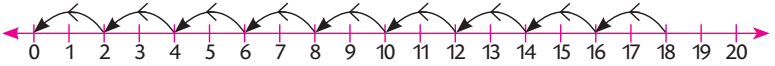


2. 18 ÷ 3 = 6



3. 16 ÷ 4 = 4

4. 18 ÷ 2 = 9



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Divide using multiplication tables:

(a) 2 × 3 = **6** (b) 4 × 3 = **12** (c) 5 × 5 = **25**
6 ÷ 3 = **2**, 12 ÷ 3 = **4**, 25 ÷ 5 = **5**

(d) $6 \times 8 = \mathbf{48}$
$48 \div 8 = \mathbf{6}$,

(e) $5 \times 6 = \mathbf{30}$
$30 \div 6 = \mathbf{5}$,

(f) $6 \times 7 = \mathbf{42}$
$42 \div 6 = \mathbf{7}$

(g) $6 \times 4 = \mathbf{24}$
$24 \div 6 = \mathbf{4}$,

(h) $8 \times 7 = \mathbf{56}$
$56 \div 7 = \mathbf{8}$,

(i) $7 \times 5 = \mathbf{35}$
$35 \div 5 = \mathbf{7}$

(j) $2 \times 9 = \mathbf{18}$
$18 \div 2 = \mathbf{9}$,

(k) $9 \times 9 = \mathbf{81}$
$81 \div 9 = \mathbf{9}$,

(l) $9 \times 8 = \mathbf{72}$
$72 \div 8 = \mathbf{9}$

(m) $7 \times 10 = \mathbf{70}$
$70 \div 7 = \mathbf{10}$,

(n) $9 \times 8 = \mathbf{72}$
$72 \div 9 = \mathbf{8}$,

(o) $9 \times 6 = \mathbf{54}$
$54 \div 9 = \mathbf{6}$

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1. (a) $7\overline{)56}$ → 8, 56, 56, ×

(b) $9\overline{)18}$ → 2, 18, 18, ×

(c) $8\overline{)48}$ → 6, 48, 48, ×

(d) $3\overline{)27}$ → 9, 27, 27, ×

(e) $9\overline{)36}$ → 4, 36, 36, ×

(f) $6\overline{)54}$ → 9, 54, 54, ×

2. Write the short form of division:

(a) $21 \div 7 = 3$

(b) $48 \div 8 = 6$

(c) $24 \div 4 = 6$

(d) $49 \div 7 = 7$

(e) $27 \div 3 = 9$

(f) $54 \div 6 = 9$

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Solve the following words problems:

1. $5\overline{)40}$ → 8, 40, 40, ×

2. $7\overline{)63}$ → 9, 63, 63, ×

3. $5\overline{)35}$ → 7, 35, 35, ×

4. $9\overline{)81}$ → 9, 81, 81, ×

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Fill in the blanks:

(a) $24 \div \mathbf{3} = 8$

(b) $21 \div \mathbf{3} = 7$

(c) $40 \div \mathbf{4} = 10$

(d) $36 \div \mathbf{6} = 6$

(e) $12 \div \mathbf{4} = 3$

(f) $15 \div \mathbf{5} = 3$

(g) $35 \div \mathbf{5} = 7$

(h) $42 \div 6 = \mathbf{7}$

(i) $27 \div 3 = \mathbf{9}$

(j) $24 \div 4 = \mathbf{6}$

(k) $40 \div 5 = \mathbf{8}$

(l) $16 \div 4 = \mathbf{4}$

(m) $14 \div 2 = \mathbf{7}$

(n) $18 \div 3 = \mathbf{6}$

(o) $28 \div 4 = \mathbf{7}$

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1. Circle 8; Triangle 14; Rectangle 11; Square 1

2. triangles = 3; circles = 14; squares = 10

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1.	(a) cuboid	(b) cone	(c) cylinder	(d) sphere
2.	(a) cone	(b) cube	(c) cone	(d) cylinder
	(e) cone	(f) cylinder	(g) cube	(h) cylinder
	(i) sphere	(j) sphere	(k) cuboid	(l) cylinder
	(m) cube	(n) cone	(o) cylinder	(p) cuboid

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Write the name of the shapes:

circle; cuboid; square; rectangle; cone; rectangle; tringle; sphere; cylinder; cylinder; cuboid; cube

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1. cylinder; cube; cuboid; cone; sphere; cone **2.** cylinder; sphere; rectangle; cuboid; sphere

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1. 3; 5; 3 **2.** straight; curved; straight; curved

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Study the patterns and complete them:

(a) 3, 6, **9**, 12, **15**, 18 (b) 4, **8**, 12, **16**, 20, **24** (c) 5, **10**, 15, **20**, 25, **30** (d) 7, 14, **21**, **28**, 35, **42** (e) 6, **12**, 18, **24**, 30, **36** (f) 8, **16**, 24, **32**, 40, **48**

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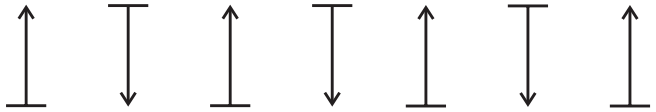
Understand the pattern and draw more:

(a) 

(b) 

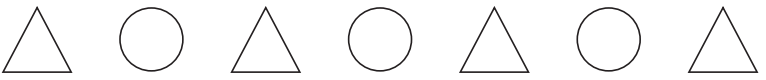
(c) 

(d) 

(e) 

(f) 

(g) 

(h) 

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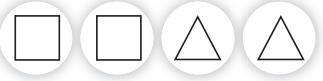
Look at each of the following patterns and complete the sequence:

(a)  (b) 

(c)  (d) 

(e) 

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Count how much money:

(a) 10 (b) 10 (c) 18 (d) 27 (e) 22 (f) 37 (g) 80 (h) 75 (i) 160

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1. (a) 8 o'clock, 8:00 hours (b) 3 o'clock, 3:00 hours (c) 6 o'clock, 6:00 hours

2. (a)  (b)  (c)  (d) 

3. (a)  (b)  (c)  (d) 

(e)  (f)  (g)  (h) 

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1. (a) 7 (b) Sunday (c) Wednesday (d) Thursday (e) Tuesday (f) Saturday (g) Friday **2.** (a) Monday (b) Saturday (c) Friday

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1. (a) 366 (b) 31 (c) November (d) September (e) January, March (f) June, November (g) August (h) August (i) 29 (j) January **2.** (a) February (b) May (c) August (d) November

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Look at the picture and count the number of animals and objects you see and write the number in the boxes:

2; 4; 1; 7; 5; 8; 6; 5; rabbits; elephants

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1. 11; 10; 8; 17 **2.** (a) triangles (b) rectangle (c) 10 (d) circles

Model Test Paper – I

Subtract the following :

1. Write the missing numbers:

1	2	**3**	4	5	6	7	8	9	10
11	12	13	14	**15**	16	17	18	19	**20**
21	22	23	**24**	25	26	27	**28**	29	30
31	32	33	34	35	36	37	38	**39**	40
41	42	43	44	**45**	46	47	48	49	50

2. Write the numbers in expanded form:

(a) 61 = 6 tens + 1 ones = 60 + 1
(b) 24 = 2 tens + 4 ones = 20 + 4
(c) 36 = 3 tens + 6 ones = 30 + 6
(d) 49 = 4 tens + 9 ones = 40 + 9
(e) 25 = 2 tens + 5 ones = 20 + 5
(f) 76 = 7 tens + 6 ones = 70 + 6

3. Fill in the blanks:

(a) 2 + 3 = 5 (b) 4 + 2 = 6 (c) 7 + 1= 8
(d) 2 + 6 = 8 (e) 7 + 4 = 11 (f) 3 + 7=10
(g) 0 + 8 = 8 (h) 9 + 2 = 11 (i) 8+6=14

4. Subtract the following:

(a) 66 − 03 = **63** (b) 97 − 51 = **46** (c) 75 − 34 = **41** (d) 69 − 12 = **57**

5. Choose the correct sign + or –

(a) 40 + 10 = 50 (b) 60 + 20 = 80
(c) 25 – 15 = 10 (d) 54 + 14 = 68
(e) 30 + 10 = 40 (f) 50 – 30 = 20

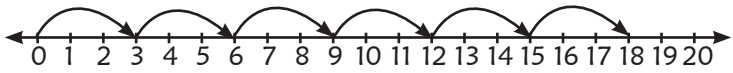
Model Test Paper – II

1. Fill in the blanks:

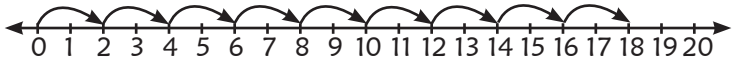
	Multiplication	Repeated Addition
(a)	3 × 6	3 + 3 + 3 + 3 + 3 + 3
(b)	9 × 5	9 + 9 + 9 + 9 + 9
(c)	8 × 2	8 + 8
(d)	7 × 4	7 + 7 + 7 + 7
(e)	5 × 8	5 + 5 + 5 + 5+ 5 + 5 + 5 +5

2. Multiply using the number line

(a)



(b)



3. Fill in the boxes by skip counting:

(a)	2 →	4,	6,	8,	10,	12
(b)	20 →	40,	60,	80,	100,	120
(c)	10 →	20,	30,	40,	50,	60
(d)	7 →	14,	21,	28,	35,	42

4. Divide using multiplication tables:

(a) $2 \times 4 = 8$, $8 \div 4 = 2$ (b) $7 \times 8 = 56$, $56 \div 8 = 7$ (c) $9 \times 6 = 54$, $54 \div 9 = 6$

5. Do yourself

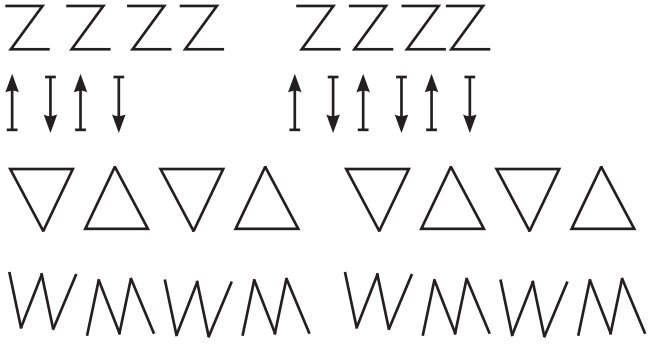
Model Test Paper – III

1. Study the Patterns and complete them:

(a)	5	10	15	20	25	30
(b)	4	8	12	16	20	24
(c)	6	12	18	24	30	36
(d)	3	6	9	12	15	18

2. Understand the pattern and draw more:

(a) (b) (c) (d)



3. Do yourself

4. Fill in the blanks:

(a) $3 \times 4 = 12$ (b) $6 \times 6 = 36$
(c) $5 \times 5 = 25$ (d) $7 \times 7 = 49$
(e) $8 \times 5 = 40$ (f) $9 \times 6 = 54$

Model Test Paper – VI

1. Write the number in expanded form:

(a) 6 tens + 4 ones = 60 + 4 = 64
(b) 8 tens + 9 ones = 80 + 9 = 89
(c) 5 tens + 6 ones = 50 + 6 = 56
(d) 2 tens + 5 ones = 20 + 5 = 25

2. Use multiplication tables to fill in the blanks:

(a) 4 × 4 = 16 (b) 1 × 9 =9 (c) 5 × 4 =20
(d) 6 × 6 = 36 (e) 4 × 3= 12 (f) 5 × 5 = 25
(g) 9 × 9 = 81 (h) 9 × 7 =63 (i) 6 × 5 = 30
(j) 4 × 10 = 40 (k) 10 × 6 = 60 (*l*) 8 × 9 =72

3. Answer the following question:

(a)
$$\begin{array}{r} 5 \\ \times\ 7 \\ \hline \mathbf{3\ 5} \end{array}$$

(b)
$$9\overline{)\,81}\ \ 9$$
81
×

(c)
$$\begin{array}{r} 2\ 9 \\ +\ 4\ 4 \\ \hline \mathbf{7\ 3} \end{array}$$

4. Fill in the blanks:

(a) 7 days (b) Wednesday
(c) Tuesday (d) Friday

5. Which month comes between?

(a) February (b) May
(c) August (d) November