COSMIC SERIES

MATHS Wizard

(A MAIN COURSE BOOK OF MATHEMATICS)

Math 2
Solution

TEACHER'S HELP BOOK
MATHS WIZARD-2

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1. Fill in the missing numbers:

35, 36, **37**, **38**, 39, 40, **41**, **42**

51, **52**, 53, 54, **55**, 56, 57, **58**

67, 68, **69**, **70**, 71, **72**, **73**, **74**

84, **85**, 86, 87, **88**, 89, **90**, 91

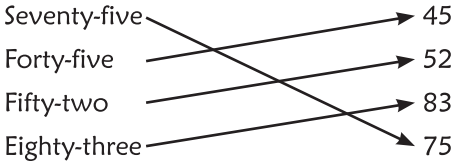
2. Write the number names of the given numbers:

35 **Thirty five**	51 **Fifty one**	76 **Seventy six**
40 **Forty**	74 **Seventy four**	36 **Thirty six**
80 **Eighty**	49 **Forty nine**	79 **Seventy nine**

3. Write the numbers of the given number names:

Twenty-nine	**29**	Eighty-three	**83**
Seventy-six	**76**	Twelve	**12**
Sixty-three	**63**	Ninety-seven	**97**

4. Match the number names with their numbers:



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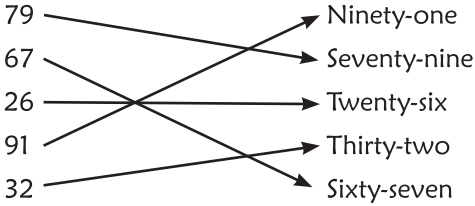
5. Match the numbers with their number names:



6. Write the number which comes after the given numbers:

63, **64**, 41, **42**, 15, **16**, 59, **60**

46, **47**, 62, **63**, 29, **30**, 51, **52**

77, **78**, 90, **91**, 31, **32**, 47, **48**

7. Write the numbers which comes before the given numbers:

44, 45, **13**, 14, **33**, 34, **50**, 51

49, 50, **19**, 20, **25**, 26, **39**, 40

77, 78, **50**, 51, **15**, 16, **29**, 30

8. Write the number which comes in between the given numbers:

31, **32**, 33	42, **43**, 44	97, **98**, 99
69, **70**, 71	9, **10**, 11	59, **60**, 61

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Fill in the blanks with correct sign of <, = or >:

26 < 30	83 < 89	66 < 71
39 > 13	78 > 69	93 < 99
26 = 26	49 > 35	79 > 69
79 < 81	68 = 68	54 < 62
34 > 12	29 > 25	36 < 63

Tick (✓) the largest number in each set:

39, 27, 59, **60**, **65**, 13, 21, 39, 78, 66, **97**, 32

31, 56, **88**, 47, 95, 89, **98**, 69, 15, **27**, 8, 13

Tick (✓) the smallest number in each set:

94, **32**, 81, 59, 37, 49, **36**, 41, 88, 77, **66**, 99

53, 72, 87, **11**, 44, 37, 55, **22**, 41, 36, 48, **19**

Arrange the following numbers in ascending order:

27, 32, 43, 56, 87

39, 43, 47, 52, 59

31, 36, 38, 52, 99

47, 67, 72, 81, 99

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Arrange the following numbers in descending order:

90, 87, 82, 78, 32

51, 49, 45, 32, 19

88, 78, 56, 49, 17

67, 56, 52, 44, 37

Write the numbers in standard form:

7 tens and 3 ones = **70** + **3** = **73**
2 tens and 2 ones = **20** + **2** = **22**
8 tens and 5 ones = **80** + **5** = **85**
5 tens and 4 ones = **50** + **4** = **54**
9 tens and 9 ones = **90** + **9** = **99**
6 tens and 6 ones = **60** + **6** = **66**

Write the numbers in expanded form:

46 = **4** tens + **6** ones = **40** + **6**
87 = **8** tens + **7** ones = **80** + **7**
45 = **4** tens + **5** ones = **40** + **5**
49 = **4** tens + **9** ones = **40** + **9**
79 = **7** tens + **9** ones = **70** + **9**
83 = **8** tens + **3** ones = **80** + **3**

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Count the objects and write tens, ones and numbers:

20 tens + **7** ones = **27**
30 tens + **2** ones = **32**
40 tens + **0** ones = **40**

Use pencil to mark grops of 2. Fill in the boxes:

How many flags are there in each group?	**2 flags**
How many groups are there?	**7**
What is the total number of flags?	**15 flags**
How many flags are there without group	**1 flag**

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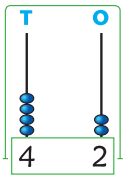
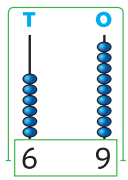
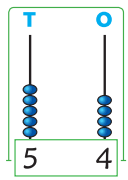
How many butterflies are there in each group?	**3**
How many groups are there?	**10**
What is the total number of butterflies?	**30**
How many butterflies are there without groups?	**None**

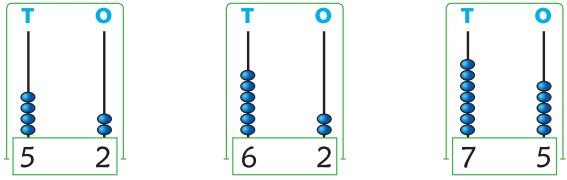
Draw the correct number of the beads on the abacus and write the number names below:

42 

69 

54 

Write the number after counting the beads:



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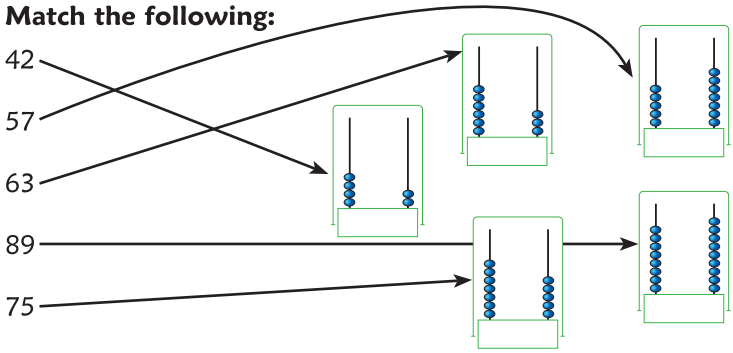
Match the following:



Add the following numbers:

(a) 5 6	(b) 7 3	(c) 1 3	(d) 9 0
+ 2 3	+ 1 4	+ 1 7	+ 0 8
7 9	**8 7**	**3 0**	**9 8**
(e) 8 9	(f) 6 7	(g) 3 5	(h) 2 5
+ 1 0	+ 3 2	+ 6 8	+ 5 2
9 9	**9 9**	**9 8**	**7 7**

Subtract the following numbers:

(a) 4 3	(b) 4 6	(c) 7 5	(d) 6 8
– 2 1	– 3 1	– 2 2	– 2 3
2 2	**1 5**	**5 3**	**4 5**
(e) 5 3	(f) 6 5	(g) 6 9	(h) 6 4
– 2 1	– 2 2	– 3 6	– 4 3
3 2	**4 3**	**3 3**	**2 1**

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Multiply the following numbers:

(a) $\begin{array}{r} {\scriptstyle 1}\,8\,3 \\ \times\ 4 \\ \hline \mathbf{3\,3\,2} \end{array}$ (b) $\begin{array}{r} 7\,4 \\ \times\ 2 \\ \hline \mathbf{1\,4\,8} \end{array}$ (c) $\begin{array}{r} {\scriptstyle 1}\,3\,4 \\ \times\ 4 \\ \hline \mathbf{1\,3\,6} \end{array}$ (d) $\begin{array}{r} 5\,3 \\ \times\ 3 \\ \hline \mathbf{1\,5\,9} \end{array}$

(e) $\begin{array}{r} 6\,2 \\ \times\ 2 \\ \hline \mathbf{1\,2\,4} \end{array}$ (f) $\begin{array}{r} 7\,1 \\ \times\ 3 \\ \hline \mathbf{2\,1\,3} \end{array}$ (g) $\begin{array}{r} 4\,4 \\ \times\ 2 \\ \hline \mathbf{8\,8} \end{array}$ (h) $\begin{array}{r} 2\,3 \\ \times\ 3 \\ \hline \mathbf{6\,9} \end{array}$

1. Addition:

(a) $\begin{array}{r} 9 \\ +\ 6 \\ \hline \mathbf{1\,5} \end{array}$ (b) $\begin{array}{r} 2 \\ +\ 5 \\ \hline \mathbf{7} \end{array}$ (c) $\begin{array}{r} 8 \\ +\ 4 \\ \hline \mathbf{1\,2} \end{array}$ (d) $\begin{array}{r} 3\,2 \\ +\ 4\,7 \\ \hline \mathbf{7\,9} \end{array}$ (e) $\begin{array}{r} 3\,1 \\ +\ 6\,4 \\ \hline \mathbf{9\,5} \end{array}$

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2. Subtraction:

(a) $\begin{array}{r} 2\,0 \\ -\ 1\,1 \\ \hline \mathbf{9} \end{array}$ (b) $\begin{array}{r} 7\,6 \\ -\ 4\,0 \\ \hline \mathbf{3\,6} \end{array}$ (c) $\begin{array}{r} 5\,6 \\ -\ 3\,1 \\ \hline \mathbf{2\,5} \end{array}$

Look at the example and solve.

Example 2. if = **9 – 3 = 6** **3.** as = **1 – 0 = 1** **4.** is = **9 – 0 = 9**

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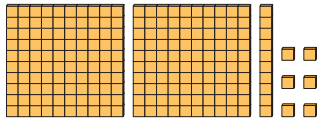
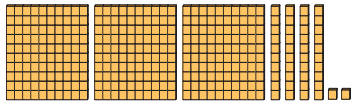
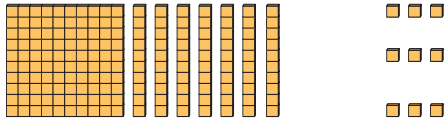
1. Count the hundreds, tens and ones and write the number:

(a)  **216**

(b)  **342**

(b)  **179**

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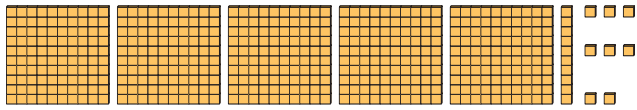
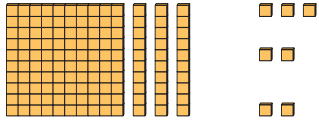
(d)  **518**

(e)  **137**

1. Write the missing numbers :

101	102	103	104	105	106	107	108	109	110
112	**113**	**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

3. Write the mising numbers:

(a)

201	202	203	204	205	206	207	208	209	210
211	**212**	**213**	**214**	**215**	**216**	**217**	**218**	**219**	**220**
221	**222**	**223**	**224**	**225**	**226**	**227**	**228**	**229**	**230**
231	**232**	**231**	**234**	**235**	**236**	**237**	**238**	**239**	240

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(b)

325	**326**	**327**	**328**	**329**	**330**	**331**	332	**333**	**334**
335	**336**	**337**	**338**	**339**	**340**	**341**	**342**	**343**	**344**
345	346	**347**	**348**	**349**	**350**	**351**	**352**	**353**	**354**
355	**356**	**357**	**358**	**359**	**360**	**361**	**362**	**363**	364

(c)

451	**452**	**453**	**454**	**455**	**456**	**457**	**458**	**459**	**460**
461	**462**	**463**	**464**	**465**	**466**	**467**	**468**	**469**	**470**
471	**472**	**473**	**474**	**475**	**476**	**477**	**478**	**479**	**480**
481	**482**	**483**	**484**	485	**486**	**487**	**488**	**489**	**490**
491	**492**	**493**	**494**	495	**496**	**497**	**498**	**499**	**500**

(d)

541	**542**	**543**	**544**	**545**	**546**	**547**	**548**	**549**	**550**
551	**552**	**553**	554	**555**	**556**	**557**	**558**	**559**	560
561	562	**563**	**564**	**565**	**566**	**567**	**568**	**569**	**570**
571	**572**	**573**	**574**	**575**	**576**	**577**	**578**	**579**	**580**
581	**582**	**583**	**584**	585	**586**	**587**	**588**	**589**	590

4. Complete the grid and say numbers aloud as you write them:

(a)

601	602	**603**	**604**	**605**	**606**	**607**	**608**	**609**	**610**
611	**612**	**613**	**614**	**615**	**616**	**617**	**618**	**619**	**620**
621	**622**	**623**	**624**	**625**	**626**	**627**	**628**	**629**	**630**
631	**632**	**633**	**634**	**635**	**636**	**637**	**638**	**639**	**640**

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641	642	**643**	644	**645**	**646**	**647**	**648**	**649**	**650**
651	**652**	**653**	**654**	**655**	**656**	657	**658**	**659**	**660**
661	**662**	**663**	**664**	**665**	**666**	**667**	**668**	**669**	670
771	**772**	**773**	**774**	**775**	**776**	**777**	**778**	**779**	**780**
681	**682**	**683**	**684**	**685**	**686**	**687**	**688**	**689**	**690**
691	**692**	**693**	**694**	**695**	**696**	**697**	**698**	**699**	700

(b)

705	**706**	**707**	**708**	**709**	710	**711**	**712**	**713**	**714**
715	**716**	**717**	**718**	719	**720**	**721**	**722**	**723**	**724**
725	**726**	**727**	**728**	**729**	**730**	731	**732**	**733**	**734**
735	**736**	**737**	738	**739**	**740**	**741**	**742**	**743**	**744**
745	746	**747**	**748**	**749**	**750**	751	**752**	**753**	**754**

(c)

801	802	803	804	805	806	807	808	809	810
811	**812**	**813**	**814**	**815**	**816**	**817**	**818**	**819**	**820**
821	**822**	**823**	**824**	**825**	**826**	**827**	**828**	**829**	**830**
831	**832**	**833**	**834**	**835**	**836**	**837**	838	**839**	**840**
841	842	**843**	**844**	**845**	**846**	**847**	**848**	**849**	**850**
851	**852**	**853**	**854**	855	**856**	**857**	**858**	**859**	860

(d)

941	**942**	**943**	**944**	**945**	**946**	**947**	**948**	949	**950**
951	**952**	**953**	**954**	955	**956**	**957**	**958**	**959**	**960**
961	**962**	**963**	**964**	**965**	**966**	**967**	**968**	**969**	**970**
971	**972**	973	**974**	**975**	**976**	**977**	**978**	**979**	**980**
981	982	**983**	**984**	**985**	**986**	**987**	**988**	**989**	**990**
991	**992**	**993**	**994**	**995**	**996**	**997**	**998**	**999**	1000

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Write the numbers for the given number names:

(a)	Three hundred twenty-nine	**329**
(b)	Seven hundred thirteen	**713**
(c)	Two hundred twelve	**212**
(d)	Five hundred sixty-two	**562**
(e)	Four hundred forty-four	**444**
(f)	Nine hundred sixty-seven	**967**
(g)	Four hundred ninety-one	**491**
(h)	Six hundred seventy-three	**673**
(i)	Nine hundred nineteen	**919**
(j)	Five hundred fifty-three	**553**

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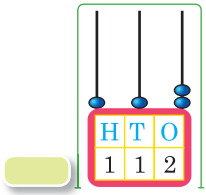
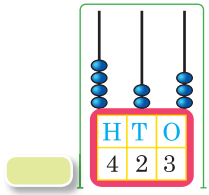
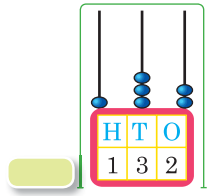
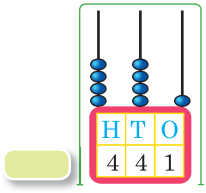
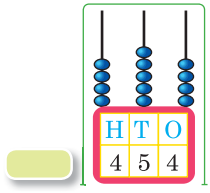
1. Read the abacus and write the numbers according to their place value. One has been done for you:

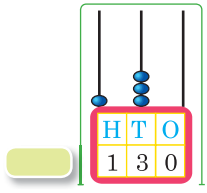
(a) 

(b) 

(c) 

(d) 

(e) 

(f) 

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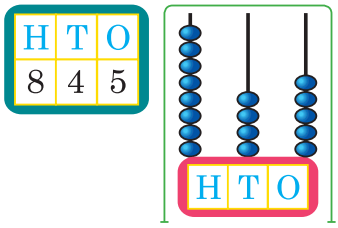
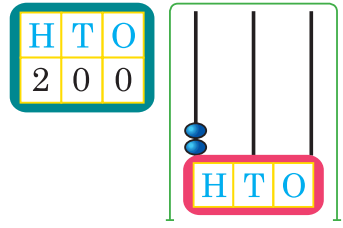
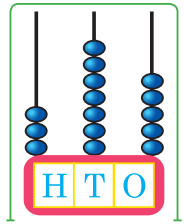
2. Draw the beads on the abacus to represent the numbers one has been done for you:

(a) 

(b) 

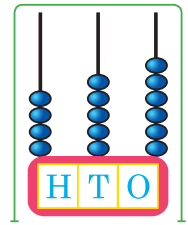
(c)

H	T	O
3	7	5



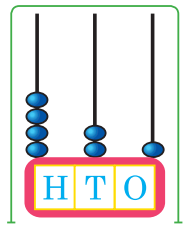
(d)

H	T	O
4	5	6



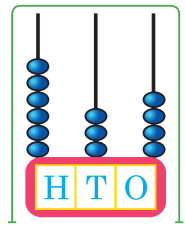
(e)

H	T	O
4	2	1



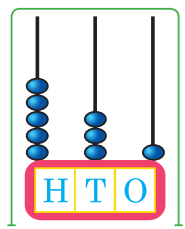
(f)

H	T	O
6	3	4



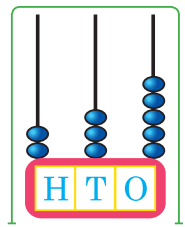
(g)

H	T	O
5	3	1



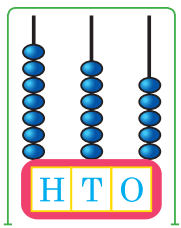
(h)

H	T	O
2	3	5



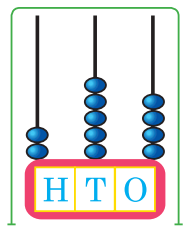
(i)

H	T	O
7	6	5



(j)

H	T	O
2	5	4



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1. Write the place value and the face value of the encircled digits. One has been done for you:

		Face value	Place Value
a.	4 2⑨	9	9
b.	2⓪0	**0**	**0**
c.	③7 9	**3**	**300**

		Face value	Place Value
d.	6 9④	4	4
e.	7④3	**4**	**40**
f.	9 2④	**4**	**4**

2. Write the place value of each digit in the following:

(a) 1 4 5 → 5, 40, 100

(b) 2 4 1 → 1, 40, 200

(c) 5 1 8 → 8, 10, 500

3. Place values of the digits are given, can you write the number?

(a) 8 0 6 → 6, 0, 800

(b) 3 5 9 → 9, 50, 300

(c) 7 7 9 → 9, 70, 700

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1. Write the given numbers in expanded notation. One has been done for you:

(a) 342 = **300 + 40 + 2**

(b) 723 = **700 + 20 + 3**

(c) 472 = **400 + 70 + 2**

(d) 812 = **800 + 10 + 2**

(e) 842 = **800 + 40 + 2**

(f) 247 = **200 + 40 + 7**

(g) 637 = **600 + 30 + 7**

(h) 905 = **900 + 0 + 5**

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(i) 612 = **600 + 10 + 2**

(j) 341 = **300 + 40 + 1**

(k) 654 = **600 + 50 + 4**

(l) 640 = **600 + 40 + 0**

2. Write the following expanded forms in standard forms:

(a) 400 + 50 + 5 = **455**

(b) 800 + 60 + 4 = **864**

(c) 800 + 30 + 37 = **837**

(d) 300 + 70 + 1 = **371**

(e) 600 + 30 + 4 = **634**

(f) 800 + 0 + 4 = **804**

(g) 200 + 50 + 7 = **257**

(h) 800 + 40 + 2 = **842**

(i) 400 + 50 + 4 = **454**

(j) 700 + 60 + 6 = **766**

1. Write the number which comes after the given number:

(a) 249 ⟶ **250**

(b) 151 ⟶ **152**

(c) 346 ⟶ **347**

(d) 371 ⟶ **372**

(e) 891 ⟶ **892**

(f) 989 ⟶ **990**

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2. Write the number which comes before the given number:

(a) **746** ⟶ 747 (b) **467** ⟶ 468

(c) **896** ⟶ 897 (d) **693** ⟶ 694

(e) **941** ⟶ 942 (f) **575** ⟶ 576

3. Write the number which comes in between the given numbers:

(a) 478 **479** 480 (b) 756 **757** 758

(c) 574 **575** 576 (d) 879 **880** 881

(e) 345 **346** 347 (f) 921 **922** 923

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1. Form all possible 3-digit numbers using the given digits only once:

(a) 4, 1, 5 **145, 154, 415, 451, 514, 541**

(b) 5, 2, 4 **245, 254, 425, 452, 524, 542**

(c) 7, 0, 8 **708, 780, 807, 870**

2. Find the greatest and the smallest 3-digit numbers that can be formed using the given digits in each of the following:

	The greates number	The smallest number
(a) 2, 3, 9	**932**	**239**
(b) 3, 0, 9	**930**	**309**
(c) 4, 8, 2	**842**	**248**

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1. Fill in the blank boxes with >, < or = symbols:

(a) 54 **<** 69 (b) 77 **>** 72

(c) 41 **=** 41 (d) 374 **<** 475

(e) 481 **<** 899 (f) 341 **<** 355

(g) 671 **<** 711 (h) 412 **<** 841

(i) 111 **<** 333 (j) 175 **>** 172

(k) 147 **<** 921 (l) 301 **<** 731

(m) 103 **<** 112 (n) 619 **>** 463

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2. Write the numbers greater than 550 in the boxes given below:

560	**612**	**714**	**559**	**720**	**960**	**560**
824						

Arrange the numbers collected in the boxes above in ascending order:

559	560	612	625	714	720	824
960						

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1. Write the numbers for the given number names:

(a) One hundred twelve **112**

(b) Four hundred sixty-nine **469**

(c) Nine hundred eighty-eight **988**

(d) Five hundred sixteen **516**

2. Write the number names for the given numbers:

(a) 478 One hundred nine (b) 545 Five hundred forty five

(c) 319 Three hundred nineteen

(d) 672 Six hundred seventy two

3. Write the place value of each digit in the following:

(a) 6 2 5 → 5, 20, 600

(b) 9 4 1 → 1, 40, 900

4. Write the follwing in expanded form:

(a) 200 = **209 + 0 + 9** (b) 415 = **400 + 10 + 5**

5. Fill in the boxes with >, < or = :

(a) 95 < 105 (b) 315 = 315

(c) 829 > 289 (d) 729 > 560

6. Write 'T' for true and 'F' for false statement:

(a) The smallest 3-digit number is 999. **F**

(b) The place value of 9 in 893 is 60. **F**

(c) The largest number formed using the digits 5, 8 and 3 only once is 853. **T**

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7. Arrange the follwing numbers in acending order:

(a) 301, 811, 411, 201, 152 **152, 201, 301, 411, 811**

(b) 252, 525, 225, 429, 522 **225, 252, 429, 522, 525**

(c) 223, 324, 233, 382, 193 **193, 223, 233, 324, 382**

8. Arrange the following numbers in descending order:

(a) 402, 209, 256, 382, 228 **420, 382, 256, 228, 209**

(b) 425, 728, 283, 641, 782 **782, 728, 641, 425, 283**

(c) 245, 424, 415, 405, 459 **459, 424, 415, 405, 245**

Tick (✓) the correct option:

1. represents the number

(a) 154 (b) 145 (c) 144 (✓) (d) 164

2. The place value of 8 in 789 is:

(a) 8 (b) 80 (✓) (c) 800 (d) none

3. The smallest number among 175, 724 and 245 is:

(a) 175 (✓) (b) 724 (c) 245 (d) none

4. _____ comes in between 719 and 721:

(a) 709 (b) 720 (✓) (c) 730 (d) 740

5. _____ comes in after 554:

(a) 555 (✓) (b) 580 (c) 553 (d) 758

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1. Write 'O' for odd and 'E' for even number:

9 **O**	25 **O**	116 **E**
131 **O**	91 **O**	214 **E**
220 **E**	127 **O**	225 **O**
243 **O**	128 **E**	149 **O**

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3. Write the odd number just before the following numbers:

25 26 **87** 88 **81** 82 **53** 54

4. Write the odd number just before the following numbers:

11 **12** 67 **68** 25 **26** 31 **32**

5. Fill in the blanks:

(a) 47 is an **odd** (even/odd) number.

(b) The next odd number after 41 is **43**.

(c) The next even number after 92 is **94**.

(d) The number next to an odd number is an **even** number.

(e) **2** is the first even number.

6. Solve the problems:

(a) Ramesh (b) 3 stamps

Write the smallest even and odd numbers:

Smallest even number : **2** Smallest odd number : **1**

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1. Add the follwing:

(a)
H	T	O
3	5	0
+ 4	3	1
7	**8**	**1**

(b)
H	T	O
7	2	4
+ 2	1	5
9	**3**	**9**

(c)
H	T	O
7	2	3
+ 1	1	5
8	**3**	**8**

(d)
H	T	O
4	3	4
+ 1	6	3
5	**9**	**7**

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(e)
H	T	O
5	1	7
+ 4	2	2
9	**3**	**9**

(f)
H	T	O
6	3	5
+ 2	5	3
8	**8**	**8**

(g)
H	T	O
6	2	4
+ 2	4	5
8	**6**	**9**

(h)
H	T	O
4	5	2
+ 3	3	2
7	**8**	**7**

(i)
H	T	O
4	2	1
+	3	7
4	**5**	**8**

(j)
H	T	O
1	7	2
+ 2	2	6
3	**9**	**8**

(k)
H	T	O
5	4	2
+ 3	4	7
8	**8**	**9**

(l)
H	T	O
3	4	5
+ 4	4	4
7	**8**	**9**

(m)
H	T	O
6	4	4
+ 4	4	5
10	**8**	**9**

(n)
H	T	O
5	6	2
+ 1	3	4
6	**9**	**6**

(o)
H	T	O
5	2	4
+ 3	3	3
8	**5**	**7**

(p)
H	T	O
1	5	0
+ 4	2	0
5	**7**	**0**

(q)
H	T	O
5	2	2
2	3	2
+ 2	4	3
9	**9**	**7**

(r)
H	T	O
3	2	4
1	2	3
+ 3	4	1
7	**8**	**8**

(s)
H	T	O
3	2	1
4	3	6
+ 4	4	2
11	**9**	**9**

(t)
H	T	O
5	2	0
2	5	1
+ 1	2	7
8	**9**	**8**

(u)
H	T	O
2	1	3
4	1	6
+ 1	2	0
7	**4**	**9**

(v)
H	T	O
4	2	3
3	4	1
+ 1	2	4
8	**8**	**8**

(w)
H	T	O
4	2	2
3	4	2
+ 2	3	4
9	**9**	**8**

(x)
H	T	O
7	1	6
1	3	1
+ 1	4	2
9	**8**	**9**

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Add the following:

(a)
H	T	O
	(1)	(1)
4	5	6
+ 3	8	9
8	**4**	**5**

(b)
H	T	O
	(1)	(1)
6	6	6
+ 7	8	5
14	**5**	**1**

(c)
H	T	O
	(1)	(1)
7	2	8
+ 2	7	8
10	**0**	**6**

(d)
H	T	O
	(1)	(1)
3	6	4
+ 2	3	7
6	**0**	**1**

(e)
H	T	O
	1	1
5	6	3
+ 4	5	9
1	**0**	**2 2**

(f)
H	T	O
	1	1
7	8	9
+ 2	3	6
1	**0**	**2 5**

(g)
H	T	O
	1	1
7	9	3
+ 5	4	8
1	**3**	**4 1**

(h)
H	T	O
	1	1
4	4	3
+ 3	7	9
8	**2**	**2**

(i)
H	T	O
	1	
7	0	8
+ 8	0	6
1	**5**	**1 4**

(j)
H	T	O
	1	1
4	6	5
+ 4	4	9
9	**1**	**4**

(k)
H	T	O
	1	1
5	6	9
+ 3	3	8
9	**0**	**7**

(l)
H	T	O
	1	1
7	3	8
+ 3	6	9
1	**1**	**0 7**

(m)
H	T	O
	1	1
4	8	8
+ 2	4	6
7	**3**	**4**

(n)
H	T	O
	1	1
4	9	7
+ 7	8	5
1	**2**	**8 2**

(o)
H	T	O
	1	1
8	2	5
+ 7	7	8
1	**6**	**0 3**

(p)
H	T	O
	1	1
7	5	6
+ 7	7	7
1	**5**	**3 3**

(q)
H	T	O
	1	1
6	6	8
+ 7	6	9
1	**4**	**3 7**

(r)
H	T	O
	1	1
4	4	6
+ 3	8	7
8	**3**	**3**

(s)
H	T	O
	1	1
4	5	6
+ 5	6	7
1	**0**	**2 3**

(t)
H	T	O
	1	1
9	8	8
+ 1	3	3
1	**1**	**2 1**

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Add the follwing:

1. There are 368 chocolates, 298 chips and 318 toffees in a box. How many total items are in the box?

		1 1
Number of chocolates	=	**368**
Number of chips	=	**298**
Number of toffees	=	**+ 318**
Total number of items		**984**

3. In a cricket match, Virat Kohli scored 240 runs in first inning and 100 runs in second inning. Find his total score in both innings.

Runs scored in first inning	=	**240**
Runs scored in second inning	=	**+ 100**
Total score	=	**340**

4. There are 642 men and 539 women in a village. Find total population of the village.

		1
Number of men	=	**642**
Number of women	=	**+ 539**
Total population	=	**1181**

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5. Hemant caught 700 fish on Monday, 340 fish on Tuesday and 170 fish on Wednesday. How many fish did he catch in all these days?

Fish caught on Monday	=	**700**
Fish caught on Tuesday	=	**340**
Fish caught on Wednesday	=	**+ 170**
Total fish caught	=	**12010**

6. Rohan made a budget for home, iin which he spent ₹999 on food, ₹499 on rent and ₹599 on other things. What is his total budget for home?

Money spent on food	=	**₹ 999**
Money spent on rent	=	**₹ 499**
Money spend on other things	=	**+ ₹ 599**
Total money spent	=	**₹2097**

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1. Fill in the blanks, using properties of addition:

(a) 768 + 123 = 123 + **768**

(b) 961 + **814** = 814 + **961**

(c) 317 + 0 = **317**

(d) 364 + **0** = 364

(e) 912 + 316 + **178** = 178 + 316 + **912**

(f) 242 + **0** = 200 + **42**

(g) 132 + 24 + **132**

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(h) 487 + 926 + **381** = 926 + 381 **487**

(i) 74 + **426** = 426 + **74**

(j) 456 + 0 = 456

(k) 243 + 963 = 963 + 243

(l) 128 + 248 + 621 = 247 + 621 + 128

(m) 748 + 819 = 819 + 748

(n) 151 + 0 = 0 + 151

2. Tick (✓) the correct option:

(a) There are 800 boys and 600 girls in a school, then total strength of the school is:

(i) 600 (ii) 1300 (iii) 1400 (✓)

(b) When 0 is added to a number, then sum of 0 and number remains:

(i) same (✓) (ii) itself (iii) both of these

(c) If order of numbers is changed, then the sum of numbers remains:

(i) unequal (ii) same (✓) (iii) none of these

(d) The sum of 124, 312 and 351 is:

(i) 787 (✓) (ii) 720 (iii) 730

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MODEL TEST PAPER-I

1. Form all possible 3-digit numbers using the given digits only once:

(a) 4, 1, 5 **145, 154, 415, 451, 514, 541**

(b) 5, 2, 4 **245, 254, 425, 452, 524, 542**

(c) 7, 0, 8 **708, 780, 807, 870**

2. Find the greatest and the smallest 3-digit numbers that can be formed using the given digits in each of the following:

	The greatest number	The smallest number
(a) 2, 3, 9	**932**	**239**
(b) 3, 0, 9	**930**	**309**
(c) 4, 8, 2	**842**	**248**

3. Arrange the follwing numbers in acending order:

(a) 301, 811, 411, 201, 152 **152, 201, 301, 411, 811**

(b) 252, 525, 225, 429, 522 **225, 252, 429, 522, 525**

(c) 223, 324, 233, 382, 193 **193, 223, 233, 324, 382**

4. Arrange the following numbers in descending order:

5. Solve the problems:

(a) Ramesh (b) 3 stamps

(a) 402, 209, 256, 382, 228 **420, 382, 256, 228, 209**

(b) 425, 728, 283, 641, 782 **782, 728, 641, 425, 283**

(c) 245, 424, 415, 405, 459 **459, 424, 415, 405, 245**

6. Add the follwing:

(a)	H	T	O
	3	5	0
+	4	3	1
	7	**8**	**1**

(b)	H	T	O
	7	2	4
+	2	1	5
	9	**3**	**9**

(c)	H	T	O
	7	2	3
+	1	1	5
	8	**3**	**8**

(d)	H	T	O
	4	3	4
+	1	6	3
	5	**9**	**7**

(a)	H	T	O
	1	1	
	4	5	6
+	3	8	9
	8	**4**	**5**

(b)	H	T	O
	1	1	
	6	6	6
+	7	8	5
	1	**4**	**5**	**1**

(c)	H	T	O
	1	1	
	7	2	8
+	2	7	8
	1	**0**	**0**	**6**

(d)	H	T	O
	1	1	
	3	6	4
+	2	3	7
	6	**0**	**1**

7. Fill in the blanks, using properties of addition:

(a) 768 + 123 = 123 + **768**

(b) 961 + **814** = 814 + **961**

(c) 317 + 0 = **317**

(d) 364 + **0** = 364

(e) 242 + **0** = 200 + **42**

8. Tick (✓) the correct option:

(a) There are 800 boys and 600 girls in a school, then total strength of the school is:

(i) 600 (ii) 1300 (iii) 1400 (✓)

(b) When 0 is added to a number, then sum of 0 and number remains:

(i) same (✓) (ii) itself (iii) both of these

(c) If order of numbers is changed, then the sum of numbers remains:

(i) unequal (ii) same (✓) (iii) none of these

(d) The sum of 124, 312 and 351 is:

(i) 787 (✓) (ii) 720 (iii) 730

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1. Subtract the following:

(a)	H	T	O
	7	5	4
–	4	5	2
	3	**0**	**2**

(b)	H	T	O
	7	3	8
–	3	2	0
	4	**1**	**8**

(c)	H	T	O
	7	9	3
–	7	9	1
	0	**0**	**2**

(d)	H	T	O
	9	3	9
–	7	3	8
	2	**0**	**1**

(e) H T O
9 4 4
– 3 4 2
6 0 2

(f) H T O
7 6 3
– 2 5 1
5 1 2

(g) H T O
9 8 6
– 8 7 3
1 1 3

(h) H T O
5 6 8
– 4 5 7
1 1 1

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(i) H T O
8 6 2
– 2 6 2
6 0 0

(j) H T O
9 8 4
– 9 8 2
0 0 2

(k) H T O
6 3 9
– 5 3 7
1 0 2

(l) H T O
4 8 3
– 2 0 2
2 8 1

(m) H T O
7 5 4
– 2 3 3
5 2 1

(n) H T O
8 6 8
– 3 5 8
5 1 0

(o) H T O
9 6 8
– 4 5 5
5 1 3

(p) H T O
7 8 6
– 4 3 2
3 5 4

(q) H T O
7 5 9
– 2 0 5
5 5 4

(r) H T O
8 5 9
– 5 4 3
3 1 6

(s) H T O
8 6 3
– 2 5 2
6 1 1

(t) H T O
4 4 4
– 4 1 3
0 3 1

(u) H T O
5 5 5
– 4 4 3
1 1 2

(v) H T O
7 7 7
– 3 5 7
4 2 0

(w) H T O
9 8 9
– 3 6 9
6 2 0

(x) H T O
8 8 8
– 2 2 2
6 6 6

(y) H T O
9 3 8
– 4 3 6
5 0 2

(z) H T O
9 3 8
– 3 2 5
6 1 3

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(a) H T O
6 12 15
~~7 3 5~~
– 4 4 9
2 8 6

(b) H T O
6 13 13
~~7 4 3~~
– 3 5 9
3 8 4

(c) H T O
8 17 17
~~9 8 7~~
– 3 8 8
5 9 9

(d) H T O
7 12
~~6 8 2~~
– 6 4 8
0 3 4

(e) H T O
8 14
~~9 4 7~~
– 4 6 7
4 8 0

(f) H T O
4 14 17
~~5 5 7~~
– 4 5 9
0 9 8

(g) H T O
4 12 12
~~5 3 2~~
– 2 6 8
2 6 4

(h) H T O
5 12 16
~~6 3 6~~
– 4 4 8
2 8 6

(i) H T O
4 16 11
5 7 1
– 4 7 5
0 9 6

(j) H T O
6 13 12
7 4 2
– 5 5 8
1 8 4

(k) H T O
5 12 15
6 3 5
– 4 7 9
1 5 6

(l) H T O
4 10 12
5 1 2
– 3 4 6
1 6 6

(m) H T O
5 13
7 6 3
– 2 5 8
5 0 5

(n) H T O
4 15 14
5 6 4
– 2 7 6
2 8 8

(o) H T O
7 10 14
8 1 4
– 3 2 6
4 8 8

(p) H T O
4 11 13
5 2 3
– 2 8 7
2 3 6

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(q) H T O
4 13 15
5 4 5
– 3 9 6
1 4 9

(r) H T O
2 11 15
3 2 5
– 1 7 8
1 4 7

(s) H T O
5 16 14
6 7 4
– 2 9 6
3 7 8

(t) H T O
4 12 14
5 3 4
– 2 8 6
2 4 8

(u) H T O
7 11
9 8 1
– 4 2 8
5 5 3

(v) H T O
7 14 12
8 5 2
– 5 9 6
2 5 6

(w) H T O
3 14 13
4 5 3
– 2 8 9
1 6 4

(x) H T O
4 13 11
5 4 1
– 2 8 6
2 5 5

2. Solve the follwing word problems:

(a) Raju sells 286 oranges and Kishen sells 184 oranges. Who sells more and how many?

Oranges sold by Raju = 286
Oranges sold by Kishen = – 184
Raju sold more = 102

(b) Sumit bought a toy for Rs 275 and gave a 500 rupees note to shopkeeper. How much money did the shopkeeper return to Sumit?

Money given to shopkeeper = ₹500
Oranges sold by Kishen = – ₹275
Money returned by shopkeepr = ₹225

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(c) There are 80 men in a village. 40 of them are illiterate. How many men are literate?

Total number of men = 80

No of illiterate men = – 40

No of literate men = 40

(d) There are 800 students in a school. 445 of them are boys. How many girls are in the school?

Total no. of students = 800

No. of boys = – 445

No. of girls = 355

(e) A shopkeeper has 375 chairs. He sold 295 chairs. How many chairs are left in the shop?

Total no. of chairs = 375

No. of chairs sold = – 295

No. of chairs left = 80

(f) There are 995 books in a library. Out of them 400 books are in English language. How many books are there in other languages?

Total no. of books = 995

No. of English books = – 400

No. of other books = 595

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(g) Out of 840 chocolates, 49 were distrubuted. How many chocolates were left?

Total no. of chocolates = 840

No. of chocolates distributed = – 49

No. of chocolates left = 791

(h) Rahul has ₹800, he have ₹600 to Rohit. How much money is left with rahul?

Money with Rahul = ₹800

Money given to Rohit = – ₹600

Money left with Rahul = ₹200

3. Tick (✓) the correct option:

(a) There are 952 students in a school. 445 of them are girls. How many boys are in the school?

(i) 400 (ii) 497 (iii) none of these (✓)

(b) The difference between 798 and 486 is:

(i) 300 (ii) 312 (✓) (iii) 412

(c) There are 400 chocolates in a bag. 200 chocolates are distributed. How many chocolates are left in the bag?

(i) 200 (ii) 400 (✓) (iii) 600

(d) There was 80 pens with Pawan. He gave 49 pens to Sajal. How many pens are left with Pawna?

(i) 30 (ii) 31 (✓) (iii) 41

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Fill in the placeholders:

4 + 4 + 4 = 12

4 × 3 = **12**

2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 16

2 × 8 = 16

7 + 7 + 7 + 7 = 28

7 × 4 = 28

Write the multiplication fact for each

3 + 3 + 3 + 3 + 3 = 15
3 × 5 = 15

2 + 2 + 2 + 2 + 2 + 2 = 12
2 × 6 = 12

8 + 8 + 8 + 8 = 32
8 × 4 = 32

7 + 7 + 7 = 21
7 × 3 = 21

9 + 9 + 9 + 9 + 9 = 45
9 × 5 = 45

5 + 5 + 5 + 5 = 20
5 × 4 = 20

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Find the product using multiplication as repeated addition. One has been done for you:

2 × 3 ⇨ **2 + 2 + 2 = 6**

7 × 4 ⇨ **7 + 7 + 7 + 7 = 28**

6 × 7 ⇨ **6 + 6 + 6 + 6 + 6 + 6 + 6 = 42**

4 × 9 ⇨ **4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 = 36**

8 × 8 ⇨ **8 + 8 + 8 + 8 + 8 + 8 + 8 + 8 = 64**

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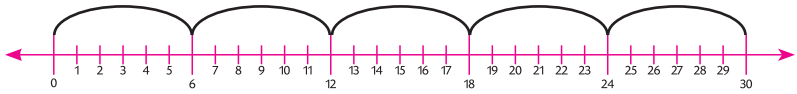
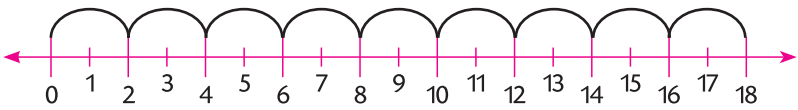
Use number line for multiplication and fill in the placeholders. One has been done for you:

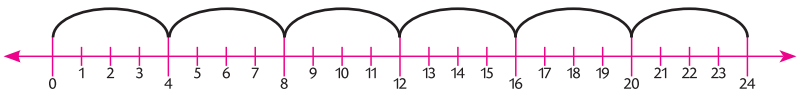


$6 \times 5 = \mathbf{6 + 6 + 6 + 6 + 6 = 30}$

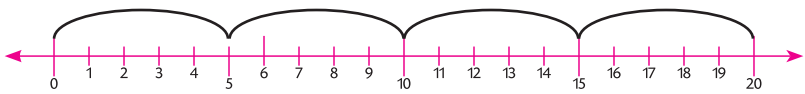
$9 \times 4 = \mathbf{9 + 9 + 9 + 9 = 36}$



$2 \times 9 = \mathbf{2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 18}$



$4 \times 6 = \mathbf{4 + 4 + 4 + 4 + 4 + 4 = 24}$



$5 \times 4 = \mathbf{5 + 5 + 5 + 5 = 20}$

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Count and complete the table of 6:

$1 \times 6 = 6$

$2 \times 6 = 12$

$3 \times 6 = \mathbf{18}$

$4 \times 6 = \mathbf{24}$

$5 \times 6 = \mathbf{30}$

$6 \times 6 = 36$

$7 \times 6 = \mathbf{42}$

$8 \times 6 = \mathbf{48}$

$9 \times 6 = \mathbf{54}$

$10 \times 6 = 60$

Count and complete the table of 7:

1 × 7 = 7
2 × 7 = **14**
3 × 7 = **21**
4 × 7 = **28**
5 × 7 = 35
6 × 7 = **42**
7 × 7 = 49
8 × 7 = **56**
9 × 7 = 63
10 × 7 = **70**

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Count and complete the table of 8:

1 × 8 = 8
2 × 8 = **16**
3 × 8 = **24**
4 × 8 = 32
5 × 8 = **40**
6 × 8 = **48**
7 × 8 = **56**
8 × 8 = 64
9 × 8 = **72**
10 × 8 = 80

Count and complete the table of 9:

1 × 9 = 9
2 × 9 = **18**
3 × 9 = **27**
4 × 9 = 36
5 × 9 = 45
6 × 9 = **54**
7 × 9 = 63
8 × 9 = **72**
9 × 9 = 81
10 × 9 = **90**

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Count and complete the table of 10:

1 × 10 = 10

2 × 10 = **20**

3 × 10 = **30**

4 × 10 = **40**

5 × 10 = **50**

6 × 10 = 60

7 × 10 = **70**

8 × 10 = **80**

9 × 10 = **90**

10 × 10 = 100

Fill in the boxes:

(a) 4 × 4 = **16** (b) 7 × 7 = **49** (c) 3 × 2 = **6**

(d) 8 × 5 = **40** (e) 9 × 6 = **54** (f) 5 × 10 = **50**

(g) 3 × 8 = **24** (h) 10 × 9 = **90** (i) 8 × 9 = **72**

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1. Fill in the blanks. One has been done for you:

(a) 3 × 0 means **3 times 0 = 0 + 0 + 0 = 0**

3 × 1 means **3 times 1 = 1 + 1 + 1 = 3**

3 × 10 means **3 times 10 = 10 + 10 + 10 = 30**

(b) 5 × 0 means **5 times 0 = 0 + 0 + 0 + 0 + 0 = 0**

5 × 1 means **5 times 1 = 1 + 1 + 1 + 1 + 1 = 5**

5 × 10 means **5 times 10 = 10 + 10 + 10 + 10 + 10 = 50**

2. Fill in the blanks. One has been done for you:

(a) 7 × 1 = **7** (b) 15 × 10 = **150**

(c) 739 × 0 = **0** (d) 92 × 0 = **0**

(e) 199 × 1 = **199** (f) 47 × 10 = **470**

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Multiply:

(a)
T	O
3	3
×	3
9	**9**

(b)
T	O
4	3
×	2
8	**6**

(c)
T	O
2	4
×	2
4	**8**

(d)
T	O
2	1
×	4
8	**4**

(e)
T	O
1	4
×	2
2	**8**

(f)
T	O
1	1
×	8
8	**8**

(g)
T	O
3	1
×	3
9	**3**

(h)
T	O
1	2
×	3
3	**6**

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Find the product:

(a)
H	T	O
1	3	2
×		3
3	**9**	**6**

(b)
H	T	O
2	3	4
×		2
4	**6**	**8**

(c)
H	T	O
4	4	3
×		2
8	**8**	**6**

(d)
H	T	O
3	1	2
×		3
9	**3**	**6**

(e)
H	T	O
1	1	1
×		7
7	**7**	**7**

(f)
H	T	O
2	1	2
×		4
8	**4**	**8**

(g)
H	T	O
1	2	2
×		4
4	**8**	**8**

(h)
H	T	O
1	3	3
×		3
3	**9**	**9**

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Find the product:

(a)
H	T	O
	3	4
×	2	1
	3	**4**
+	**6**	**8**	**0**
7	**1**	**4**

(b)
H	T	O
	2	3
×	1	2
	4	**6**
+	**2**	**3**	**0**
2	**7**	**6**

(c)
H	T	O
	5	9
×	1	1
	5	**9**
+	**5**	**9**	**0**
6	**4**	**9**

(d)
H	T	O
	3	2
×	2	2
	6	**4**
+	**6**	**4**	**0**
7	**0**	**4**

(e)
H	T	O
	3	3
×	2	3
	9	**9**
+	**6**	**6**	**0**
7	**5**	**9**

(f)
H	T	O
	2	2
×	1	3
	6	**6**
+	**2**	**2**	**0**
2	**8**	**6**

(g)
H	T	O
	2	4
×	1	1
	2	**4**
+	**2**	**4**	**0**
2	**6**	**4**

(h)
H	T	O
	4	1
×	2	2
	8	**2**
+	**8**	**2**	**0**
9	**0**	**2**

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Solve the following word problems:

(a) Sasha can drink 13 glasses of water in a day. How many glasses of water can she drink in 3 days?

$$\begin{array}{r} 13 \\ \times\ 3 \\ \hline \mathbf{39} \end{array}$$

(b) Mike can buy 21 buttons in ₹1. How many buttons can he buy in ₹4?

$$\begin{array}{r} 21 \\ \times\ 4 \\ \hline \mathbf{84} \end{array}$$

(c) A shopkeeper sells 22 toy cars in a day. How many toy cars does he sell in 4 days?

$$\begin{array}{r} 22 \\ \times\ 4 \\ \hline \mathbf{88} \end{array}$$

(d) Mrs David bakes 43 cakes in a day. How many cakes will she be able to bake in 2 days?

$$\begin{array}{r} 43 \\ \times\ 2 \\ \hline \mathbf{86} \end{array}$$

(e) Toby can paint 10 pictures in a day. How many pictures can he paint in 8 days?

$$\begin{array}{r} 10 \\ \times\ 8 \\ \hline \mathbf{80} \end{array}$$

(f) With one bottle of squash we can make 31 glasses of lemonade. How many glasses of lemonade can be made by using 3 bottles of squash?

$$\begin{array}{r} 31 \\ \times\ 3 \\ \hline \mathbf{93} \end{array}$$

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Find out product:

(a)
H	T	O
● 3		
	1	4
×		8
1	**1**	**2**

(b)
H	T	O
● 3		
	2	7
×		5
1	**3**	**5**

(c)
H	T	O
● 4		
	1	6
×		7
1	**1**	**2**

(d)
H	T	O
● 3		
	3	6
×		5
1	**8**	**0**

(e)
H	T	O
● 2		
	4	3
×		8
3	**4**	**4**

(f)
H	T	O
● 5		
	8	9
×		6
5	**3**	**4**

(g)
H	T	O
● 6		
	5	7
×		9
5	**1**	**3**

(h)
H	T	O
● 4		
	5	8
×		6
3	**4**	**8**

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1. Multiply:

(a)
H	T	O
(2)	(1)	
1	3	2
×		7
9	**2**	**4**

(b)
H	T	O
(1)	(2)	
1	4	5
×		4
5	**8**	**0**

(c)
H	T	O
(1)	●	
2	7	3
×		2
5	**4**	**6**

(d)
H	T	O
(3)	(2)	
2	8	6
×		4
1	**1**	**4**	**4**

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(a)
H	T	O
	(1)	
1	2	3
×		4
4	**9**	**2**

(b)
H	T	O
	(1)	
2	2	4
×		2
4	**5**	**6**

(c)
H	T	O
	(2)	(2)
2	6	8
×		3
8	**0**	**4**

(d)
H	T	O
	(1)	(3)
1	2	7
×		5
6	**3**	**5**

2. Solve the following word problems:

(a) There are 5 water holes in a jungle. Each water hole has 64 fish. How many fish are there in all?

	●	(2)
	6	4
×		5
3	**2**	**0**

(b) If 34 birds can sit on one tree, then how many birds can sit on 12 trees?

	3	4
×	1	2
	(1)	**8**
+	**3**	**4**	**0**
	4	**0**	**8**

Fun Activity

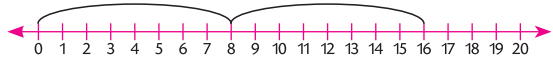
1. Complete the following:

	Repeated addition	Multiplication
(a)	3 + 3 + 3	3 × 3 = **9**
(b)	6 + 6 + 6	6 × 3 = **18**
(c)	7 + 7 + 7 + 7 + 7 + 7 + 7	7 × 7 = **49**

2. Find the product using the number line:

(a) 

2 × 7 = **14**

(b) 

8 × 2 = **16**

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3. Multiply:

(a)
T	O
3	2
×	2
6	**4**

(b)
T	O
2	2
×	2
4	**4**

(c)
T	O
2	4
×	2
4	**8**

(d)
H	T	O
1	2	3
×		2
2	**4**	**6**

4. Multiply in your notebook:

(a) 5 carry
18 × 7 = **126**

(b) 23 carry
185 × 6 = **810**

(c) 33 carry
134 × 9 = **1206**

(d) 21 carry
286 × 3 = **858**

5. Solve the following:

(a) 1 carry
12 × 8 = **96**

(b) 11 carry
134 × 3 = **402**

6. Tick (✓) the correct option:

(a) (ii) (b) (iii) (c) (i)

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(a) Share 30 mangoes among 5 children.
Each child gets **6** mangoes. 30 ÷ 5 = **6**

(b) There are 36 pens and put them equally into 6 boxes.
Each box will contain **6** pens. 36 ÷ 6 = **6**

(c) Share 48 toffees among 8 students.
Each student gets **6** toffees. 48 ÷ 8 = **6**

(d) A milkman distributed 24 milk bottles equally among 4 houses.
Each house will gets **6** milk bottles. 24 ÷ 4 = **6**

(e) 32 stamps to be fixed equally on 4 envelopes.
Each envelope will have **8** stamps. 32 ÷ 4 = **8**

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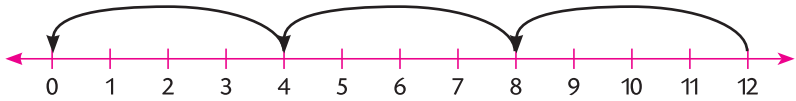
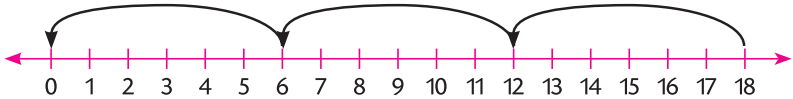
Draw jumps on the numbers lines and fill in the boxes:



12 ÷ 4 = **3**

15 ÷ 3 = **5**



18 ÷ 6 = **3**

16 ÷ 4 = **4**

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Solve the following:

Multiplication Facts	Division Facts	
3 × 2 = 6	**6 ÷ 3 = 2**	**6 ÷ 2 = 3**
3 × 6 = 18	**18 ÷ 3 = 6**	**18 ÷ 6 = 3**
4 × 7 = 28	**28 ÷ 4 = 7**	**28 ÷ 7 = 4**
5 × 8 = 40	**40 ÷ 5 = 8**	**40 ÷ 8 = 5**
6 × 8 = 48	**48 ÷ 6 = 8**	**48 ÷ 8 = 6**
7 × 2 = 14	**14 ÷ 7 = 2**	**14 ÷ 2 = 7**

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Divide the following:

45 ÷ 9 = **5**	40 ÷ 10 = **4**	32 ÷ 2 = **16**
12 ÷ 4 = **3**	35 ÷ 7 = **5**	8 ÷ 8 = **1**
42 ÷ 6 = **7**	54 ÷ 9 = **6**	81 ÷ 9 = **9**
80 ÷ 4 = **20**	63 ÷ 9 = **7**	12 ÷ 6 = **2**
48 ÷ 8 = **6**	24 ÷ 4 = **6**	14 ÷ 7 = **2**
24 ÷ 6 = **4**	36 ÷ 9 = **4**	35 ÷ 5 = **7**
12 ÷ 2 = **6**	36 ÷ 6 = **6**	40 ÷ 8 = **5**
24 ÷ 2 = **12**	36 ÷ 4 = **9**	45 ÷ 3 = **15**
42 ÷ 7 = **6**	49 ÷ 7 = **7**	48 ÷ 4 = **12**

50 ÷ 10 = **5**	64 ÷ 2 = **32**	60 ÷ 10 = **6**
45 ÷ 5 = **9**	72 ÷ 8 = **9**	40 ÷ 5 = **8**
63 ÷ 7 = **9**	28 ÷ 4 = **7**	18 ÷ 9 = **2**
32 ÷ 8 = **4**	56 ÷ 8 = **7**	12 ÷ 3 = **4**
72 ÷ 9 = **8**	56 ÷ 7 = **8**	24 ÷ 8 = **3**
32 ÷ 4 = **8**	28 ÷ 7 = **4**	25 ÷ 5 = **5**

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1. Divide the following:

9 2)18 18 0	8 3)24 24 0	12 3)36 3↓ 06 6 0	12 4)48 4 08 8 0
6 6)36 36 0	11 5)55 5↓ 05 5 0	31 2)62 6 02 2 0	33 2)66 6 06 6 0
8 6)48 48 0	10 5)5 5 0	16 2)32 2 12 12 0	28 2)56 4 16 16 0

2. Divide the following:

72 2)144 14 04 4 0	124 3)372 3 07 6 12 12 0	226 2)452 4 05 4 12 12 0	143 2)286 2 08 8 16 16 0

43	**61**	**68**	**34**
3) 129	2) 122	2) 136	4) 136
12	**12**	**12**	**12**
09	**02**	**16**	**16**
9	**0**	**16**	**16**
0	**0**	**0**	**0**

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1. 24 pencils are euqally packed into 4 packets. How many pencils are there in each packet? **24 ÷ 4 = 6 pencils**
2. 56 toffees are equally divided among 8 children. How many toffees does each child get? **56 ÷ 8 = 7 toffees**
3. 7 days make a week. How many weeks are there in 63 days? **63 ÷ 7 = 9 weeks**
4. 8 persons can sit in a jeep. How many jeeps will be required for 56 persons? **56 ÷ 8 = 7 jeeps**
5. There are 8 students in a row. How many rows will be there for 122 students? **112 ÷ 8 = 14 rows**
6. Aditi had 88 stamps with her. She distributed them equally to her 8 friends. How many stamps did each her friend get. **88 ÷ 8 = 11 stamps**
7. 240 chairs are arranged equally in 8 rows. How many chairs are there in one row. **240 ÷ 8 = 30 chairs**

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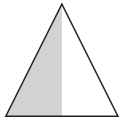
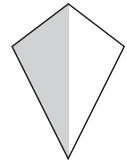
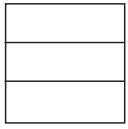
1. Do half of the following figures and fill the different colours in both parts:





2. Do one-third of following figures and fill the different colours in three parts:



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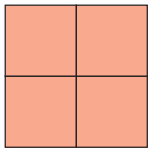
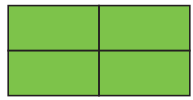
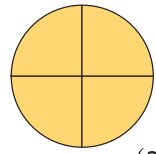
3. Do one-third of following figures and fill the different colours in three parts:

Similarly we can find one-fifth $\left(\frac{1}{5}\right)$, one sixth $\left(\frac{1}{6}\right)$, three-fourth $\left(\frac{3}{4}\right)$ etc.

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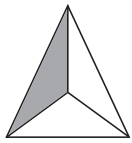
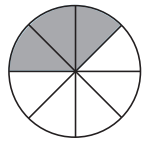
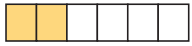
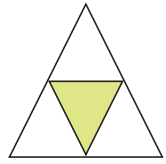
1. Write the fraction of the shaded parts:

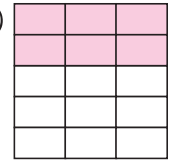
(a)  $\left(\frac{1}{3}\right)$

(b)  $\left(\frac{3}{8}\right)$

(c)  $\left(\frac{1}{2}\right)$

(a)  $\left(\frac{2}{6}\right)$

(b)  $\left(\frac{1}{4}\right)$

(c)  $\left(\frac{6}{15}\right)$

2. Shade the following according to given fractions:

(a)  $\left(\frac{1}{4}\right)$

(b)  $\left(\frac{3}{4}\right)$

(a)  $\left(\frac{2}{5}\right)$

(b)  $\left(\frac{1}{2}\right)$

3. Tick (✓) the correct option:

(a) Part of an item or part of a group is known as:

(i) fraction (✓) (ii) addition (iii) none of these

(b) There are 400 chocolates in a bag. 200 chocolates are distributed. How many chocolates are left in the bag?

(i) $\frac{1}{2}$ (✓) (ii) $\frac{3}{5}$ (iii) $\frac{4}{3}$

(c) The three-fourth part is written as:

(i) $\frac{3}{4}$ (✓) (ii) $\frac{3}{3}$ (iii) $\frac{2}{4}$

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MODEL TEST PAPER-II

1. Subtract the following:

(a)	H	T	O	(b)	H	T	O	(c)	H	T	O	(d)	H	T	O
	9	4	4		7	6	3		9	8	6		5	6	8
	– 3	4	2		– 3	2	0		– 8	7	3		– 4	5	7
	6	**0**	**2**		**5**	**1**	**2**		**1**	**1**	**3**		**1**	**1**	**1**

2. Multiply:

(a)	H	T	O	(b)	H	T	O	(c)	H	T	O	(d)	H	T	O
	1	3	2		2	3	4		4	4	3		3	1	2
	×		3		×		2		×		2		×		3
	3	**9**	**6**		**4**	**6**	**8**		**8**	**8**	**6**		**9**	**3**	**6**

(e)	H	T	O	(f)	H	T	O	(g)	H	T	O	(h)	H	T	O
		(1)				(1)			(2)	(2)			(1)	(3)	
	1	2	3		2	2	4		2	6	8		1	2	7
	×		4		×		2		×		3		×		5
	4	**9**	**2**		**4**	**5**	**6**		**8**	**0**	**4**		**6**	**3**	**5**

3. Solve the following word problems:

(a) Raju sells 286 oranges and Kishen sells 184 oranges. Who sells more and how many?

Oranges sold by Raju = 286

Oranges sold by Kishen = – 184

Raju sold more = 102

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4. Solve the following word problem:

(a) Sasha can drink 13 glasses of water in a day. How many glasses of water can she drink in 3 days?

1 3
× 3
3 9

(b) Mike can buy 21 buttons in ₹1. How many buttons can he buy in ₹4?

2 1
× 4
8 4

5. Solve the following word problems:

$$\begin{array}{r} 9 \\ 2\overline{)18} \\ 18 \\ \hline 0 \\ \hline \end{array} \qquad \begin{array}{r} 11 \\ 5\overline{)55} \\ 5\downarrow \\ \hline 05 \\ 5 \\ \hline 0 \\ \hline \end{array} \qquad \begin{array}{r} 31 \\ 2\overline{)62} \\ 6 \\ \hline 02 \\ 2 \\ \hline 0 \\ \hline \end{array} \qquad \begin{array}{r} 8 \\ 6\overline{)48} \\ 48 \\ \hline 0 \\ \hline \end{array}$$

6. Solve the following word problems:

1. 24 pencils are euqally packed into 4 packets. How many pencils are there in each packet? **24 ÷ 4 = 6 pencils**

2. 56 toffees are equally divided among 8 children. How many toffees does each child get? **56 ÷ 8 = 7 toffees**

7. Shade the following according to given fractions:

(a)  $\left(\frac{1}{4}\right)$

(b)  $\left(\frac{3}{4}\right)$

(a)  $\left(\frac{2}{5}\right)$

(b)  $\left(\frac{1}{2}\right)$

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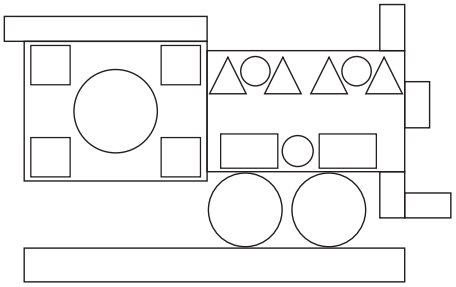
Now, count and write the number of:



circles **6**

Triangles **4**

squares **5**

rectangles **9**

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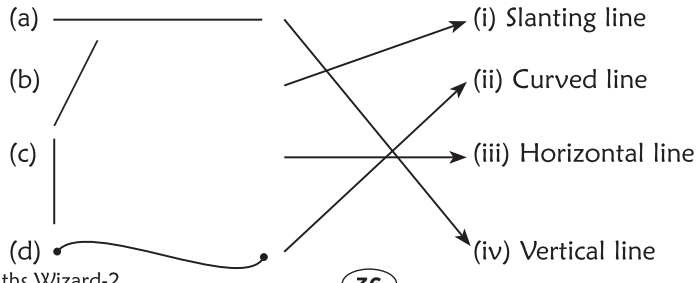
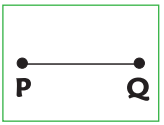
1. Match the follwoing:



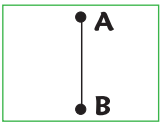
2. Join these dots with a straight line using your ruler and name the line:

(a)



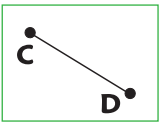
Line PQ

(b)



Line AB

(c)



Line CD

3. How many of the following lines do you see in the given figure?

Horizontal lines	**2**
Vertical lines	**1**
Slanting lines	**3**

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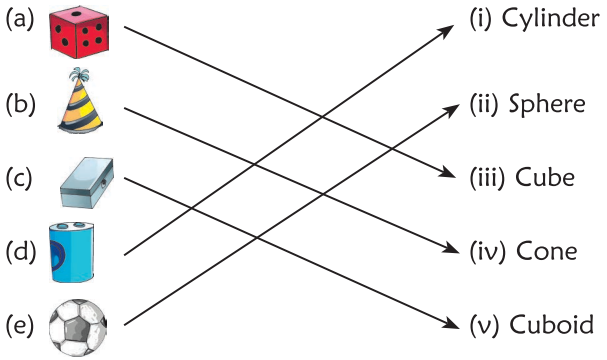
2. Match the following:



3. Tick (✓) the correct word:

(a) A ball looks like a **sphere**

(b) A book looks like a **cuboid**

(c) A carrot looks like a **cone**

(d) A pipe looks like a **cylinder**

4. Name the solid shapes:

(a) Cone

(b) Cube

(c) Cuboid

(d) Sphere

(e) Sphere

(f) Cylinder

(g) Cylinder

(h) Cuboid

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1. Identify, count and write the types of lines which make the following letters of English alphabet:

A — Horizontal – 1, Slanting – 2

E — Vertical – 1, Horizontal – 3

Y — Vertical – 1, Slanting – 2

I — Vertical – 1

H — Vertical – 2, Horizontal – 1

Z — Horizontal – 2, Slanting – 1

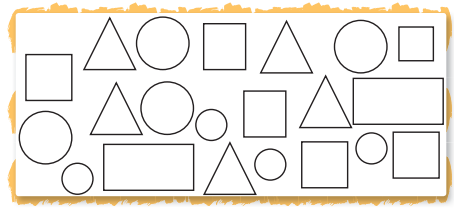
2. From the given collection, write the number of following plane shapes:

(a) Circle **8**

(b) Rectangle **2**

(c) Square **6**

(d) Triangle **5**



3. Do it yourself.

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1. Observe the sequence of numbers and write the next numbers to continue the patterns:

(a) 1, 3, 5, 7, **9**, **11**, **13**

(b) 100, 99, 98, 97, **96**, **95**, **94**

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(c) 20, 22, 24, 26, **28**, **30**, **32**

(d) 50, **51**, 52, **53**, 54, **55**, **56**

(e) 35, **36**, 37, **38**, 39, **40**, **41**

(f) 19, 29, 39, 49, **59**, **69**, **79**

(g) 11, 22, 33, 44, **55**, **66**, **77**

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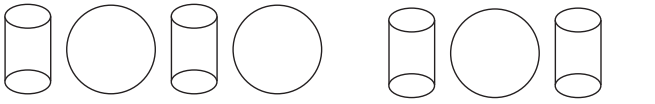
Complete the following patterns:

(a) 

(b) 

(c) 

(d) 

(e) 

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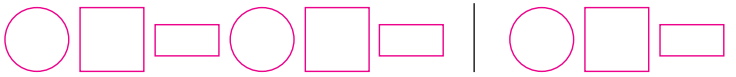
1. Look at the patterns in shapes and draw the next three shapes which would come next in sequence:

(a) 

(b) 

(c) 

(d) 

2. Write the next four terms in each number pattern:

(a) 2, 4, 6, 8, 10, **12 14 16 18**

(b) 100, 90, 80, 70, 60 **50 40 30 20**

(c) 25, 30, 35, 40, 45 **50 55 60 65**

(d) 11, 21, 31, 41, 51, **61 71 81 91**

3. Complete the following patterns:

- **Do it yourself**

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- **Do it yourself.**

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- **Do it yourself.**

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- **Do it yourself.**

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- **Do it yourself.**

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1. Do it yourself.

2. Write the correct unit to measure the capacity of these things (l or ml):

(a)  **[l]**

(b)  **[l]**

(c)  **[ml]**

(d) 

[ml]

(e)  **[l]**

(f)  **[ml]**

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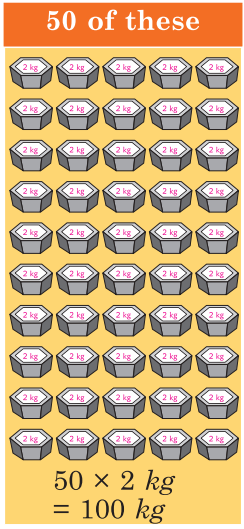
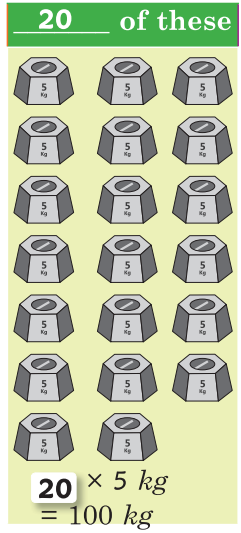
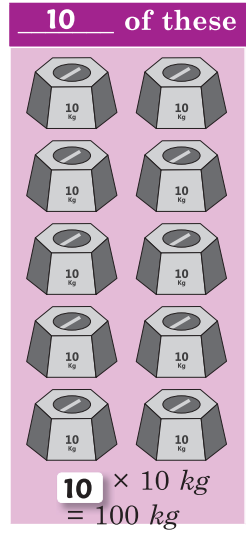
1. Can you guess, how many of each weight do we need to make 100 kg?







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2. What would you use to weigh the following objects; kg or gm?

(a) An apple  **[gm]**

(b) A pencil  **[gm]**

(c) A bucket of sweets  **[kg]**

(d) A boy  **[kg]**

(e) A cake  **[gm]**

(f) A honeybee  **[gm]**

Read the following weighing scales and fill in the blanks:

(a) Priya weighs **30** kilograms.
(b) Mahek weighs **28** kilograms.
(c) Kavita weighs **36** kilograms.
(d) Mahek is **8** kilogram lighter than Kavita.
(e) Kavita is **6** kilogram heavier than Priya.
(f) **Kavita** is the heaviest.

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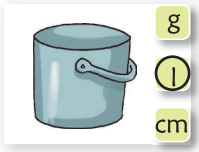
1. Which is better unit to measure these things (l or ml)?

(a) Ink	**ml**
(b) Health Tonic	**ml**
(c) Cooking oil	**l**
(d) Milk	**l**
(e) Cough Syrup	**ml**
(f) Petrol	**l**
(g) Juice	**ml**

2. Circle (◯) the correct unit to measure these things:

(a) 

(b) 

(c) 

(d) 

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MODEL TEST PAPER-III

1. Tick (✓) the correct word:

(a) A ball looks like a **sphere**

(b) A book looks like a **cuboid**

(c) A carrot looks like a **cone**

(d) A pipe looks like a **cylinder**

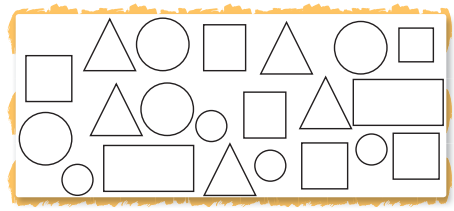
2. From the given collection, write the number of following plane shapes:

(a) Circle **8**

(b) Rectangle **2**

(c) Square **6**

(d) Triangle **5**



3. Write the next four terms in each number pattern:

(a) 2, 4, 6, 8, 10, **12 14 16 18**

(b) 100, 90, 80, 70, 60 **50 40 30 20**

(c) 25, 30, 35, 40, 45 **50 55 60 65**

(d) 11, 21, 31, 41, 51, **61 71 81 91**

4. Write the names of any four things whose capacity is::

Do it yourself.

5. Read the following weighing scales and fill in the blanks:

(a) Priya weighs **30** kilograms.

(b) Mahek weighs **28** kilograms.

(c) Kavita weighs **36** kilograms.

(d) Mahek is **8** kilogram lighter than Kavita.

(e) Kavita is **6** kilogram heavier than Priya.

(f) **Kavita** is the heaviest.

6. Write the names of any four things whose capacity is::

Do it yourself.

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Write the time shown on each clock:

8 o'clock

4 o'clock

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Write the time shown on each clock:

Half past 7

Half past 3

Half past 11

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1. Fill in the blanks:

(a) We like to drink lassi in **summer** season

(b) New flowers bloom in **spring** season.

(c) We like to wear woollen clothes in **winter** season.

(d) We use raincoats in the **rainy** season.

(e) We feel hot in **summer** season.

2. Tick (✓) the correct option:

(a) The clock has _____ hands.

(i) three (✓) (ii) two (iii) one

(b) One hour is equal to:

(i) 60 minutes (✓) (ii) 60 seconds (iii) 24 hours

(c) The long hand is the _____ hand.

(i) second (ii) minute (✓) (iii) hour

(d) 1 day is equal to:

(i) 24 hours (✓) (ii) midnight (iii) 1 minute

(e) There are _____ seasons in year.

(i) five (✓) (ii) six (iii) three

3. Fill in the blanks:

(a) Tuesday (b) Thursday
(c) Wednesday (d) Wednesday
(e) Sunday (f) Tuesday
(g) Sunday (h) Saturday
(i) Thursday (j) Monday

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One ₹500 note can be changed for **5** ₹100 notes.

1. Fill in the blanks:

(a) How many ₹5 notes make ₹50? **10**
(b) How many ₹10 notes make ₹100? **10**
(c) How many ₹20 notes make ₹80? **4**
(d) How many ₹2 notes make ₹40? **20**

2. Fill in the blanks:

(a) **15** ₹1 coins make 15 rupees.
(b) **3** ₹2 coins make 6 rupees.
(c) **6** ₹5 coins make 30 rupees.
(d) **6** ₹10 coins make 60 rupees.

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Add the following amounts:

P	P	P	₹
2 0	2 6	4 2	2 4 2
+ 6 5	+ 1 0	+ 2 0	+ 1 3 2
8 5	**3 6**	**6 2**	**3 7 6**

₹	P
19	70
+ 73	15
92	**85**

₹	P
23	70
+ 26	15
49	**85**

₹	P
32	25
+ 20	36
52	**61**

₹	P
60	39
+ 24	38
84	**77**

₹	P
10	25
+ 5	10
15	**35**

₹	P
35	50
+ 12	40
47	**90**

₹	P
70	65
+ 20	24
90	**89**

₹	P
93	60
+ 21	15
114	**75**

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Subtract the following amounts:

P
5 10
~~6~~ ~~0~~
– 2 5
3 5

P
4 5
+ 3 4
1 0

₹
7 5
– 1 5
6 0

₹
4 11
6 ~~5~~ ~~1~~
– 2 2 4
4 2 7

₹	P
18	95
– 5	40
13	**55**

₹	P
427	55
– 310	10
117	**45**

₹	P
85	80
– 31	40
54	**40**

₹	P
177	80
– 122	80
55	**00**

₹	P
4 10	
~~150~~	65
– 123	30
27	**35**

₹	P
129	65
– 118	35
11	**30**

₹	P
6 10	3 10
~~708~~	~~40~~
– 321	15
387	**25**

₹	P
119	99
– 101	65
18	**34**

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Solve the following word problems:

1 : Garima paid ₹15 and 50p for bananas, ₹25 and 25p for mangoes. How much money did she pay altogether?

		₹	P
Solution : Amount paid for bananas	=	₹15	50p
Amount paid for mangoes	= +	₹25	25p
Total amount paid	=	**₹40**	**75p**

2 : Naveen had ₹80 with him and he bought a book worth ₹50. How much money was left with him?

		₹	
Solution : Naveen had	=	₹	80
Money spent	= +	₹	50

Balance = ₹ **30**

3 : Vinod had ₹345 in his purse. He purchased a shirt for ₹225. How much money was left with him?

Solution : Amount of money in the purse = ₹ 345

Money spent for shirt = + ₹ 225

Amount of money left with him = ₹ **120**

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1. Fill in the number of each thing in Anshu's school bag:

Anshu's School Bag	
Pencils	3
Sharpener	1
Eraser	2
Crayons	16
Lunch box	1
Books	5

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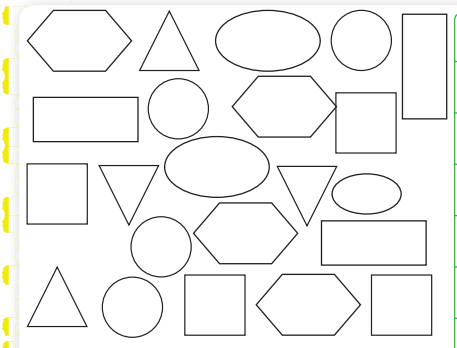
2. Look at the follwoing shapes. Count and write their number:



Shapes	Numbers
	4
	4
	3
	4
	4
	3

3. Below is a list of all the children in a class. Sort out the names into the table given below:

Komal, Rakesh, Cara, Rashmi, Ellen, Kim, Sumit
Mohit, Ojas, Babita, Jenny, Nitika, Neeta

3-letter names	4-letter names	5-letter names	6-letter names
Kim	**Cara** **Ojas**	**Komal** **Ellen** **Sumit** **Mohit** **Jenny** **Neeta**	**Rakesh** **Rashmi** **Babita** **Nitika**

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Each △ stand for 5 fruits.

(a) How many apples did uncle John pick?

5 × 5 = 25 apples

(b) How many mangoes did he pick?

3 × 5 = 15 mangoes

(c) How many oranges than apples did he pick?

30 – 25 = 5 oranges

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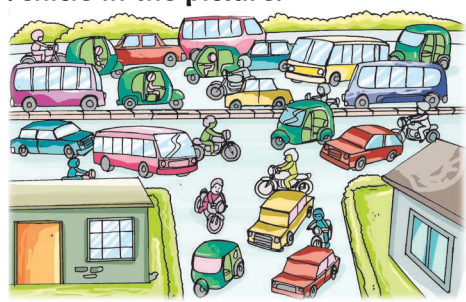
Count each kind of vehicle in the picture:

7

6

9

5



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1. Count each kind of vehicle in the picture:

(a) (i)

(b) (i)

(c) (ii)

(d) (i)

(e) (i)

2. Subtract the following amounts:

P 5 10 ~~6~~ ~~0~~ – 2 5 **3 5**	P 4 5 + 3 4 **1 0**	₹ 7 5 – 1 5 **6 0**	₹ 4 11 6 ~~5~~ ~~1~~ – 2 2 4 **4 2 7**
₹ P 18 95 – 5 40 **13 55**	₹ P 427 55 – 310 10 **117 45**	₹ P 85 80 – 31 40 **54 40**	₹ P 177 80 – 122 80 **55 00**
₹ P 4 10 ~~1~~~~5~~~~0~~ 65 – 123 30 **27 35**	₹ P 129 65 – 118 35 **11 30**	₹ P 6 10 3 10 ~~7~~~~0~~~~8~~ ~~4~~~~0~~ – 321 15 **387 25**	₹ P 119 99 – 101 65 **18 34**

3. Below is a list of all the children in a class. Sort out the names into the table given below:

Komal, Rakesh, Cara, Rashmi, Ellen, Kim, Sumit
Mohit, Ojas, Babita, Jenny, Nitika, Neeta

3-letter names	4-letter names	5-letter names	6-letter names
Kim	**Cara** **Ojas**	**Komal** **Ellen** **Sumit** **Mohit** **Jenny** **Neeta**	**Rakesh** **Rashmi** **Babita** **Nitika**

4 Each △ stand for 5 fruits.

(a) How many apples did uncle John pick?

5 × 5 = 25 apples

(b) How many mangoes did he pick?

3 × 5 = 15 mangoes

(c) How many oranges than apples did he pick?

30 – 25 = 5 oranges