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Madhav Goel

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Meera Ranjan

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Ayush Singh

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✓ 98.2%

• 10TH Boards •



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Senin Ahammed

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Chapter 2

Fun with Numbers

Q1:



Radhika, Gauri, Vicky, Indra and Sunil were collecting *Imli* (tamarind) seeds.

- ✦ _____ collected the most seeds.
- ✦ Sunil will collect _____ more seeds to be equal to Vicky.
- ✦ If Radhika gets 6 more seeds, she will have _____.
- ✦ How many children have more than 40 seeds? _____
- ✦ _____ needs 3 more seeds to have 50.
- ✦ Sunil has 2 seeds less than 40 and _____ has 2 seeds more than 40.



Answer

- Indra collected the most seeds.
- Sunil needs to collect 4 more seeds to be equal to Vicky.
- Radhika has 24 seeds. After getting 6 more seeds she will have 30 seeds.
- 3 of them have more than 40 seeds.
- Gauri needs 3 more seeds to have 50.
- Sunil has 2 seeds less than 40 and Vicky has 2 seeds more than 40.



Radhika, Gauri, Vicky, Indra and Sunil were collecting Imli (tamarind) seeds.

- ✦ **Indra** collected the most seeds.
- ✦ Sunil will collect four more seeds to be equal to Vicky.
- ✦ If Radhika gets 6 more seeds, she will have 30.
- ✦ How many children have more than 40 seeds? 3
- ✦ **Gauri** needs 3 more seeds to have 50.
- ✦ Sunil has 2 seeds less than 40 and **Vicky** has 2 seeds more than 40.

Q2: One-day match between India and South Africa in Guwahati

..... India batting first

.....



Answer



Fill in the blanks:

Dhoni scored $96 + \underline{6} = \underline{102}$ runs.

Q3: How many runs do these players need to complete a century?

	<i>Runs scored</i>	<i>Runs needed to complete a century</i>
Player 1	93	_____
Player 2	97	_____
Player 3	89	_____
Player 4	99	_____

Answer

	<i>Runs scored</i>	<i>Runs needed to complete a century</i>
Player 1	93	<u>7</u>
Player 2	97	<u>3</u>
Player 3	89	<u>11</u>
Player 4	99	<u>1</u>

(Hint: Century = 100 runs)

Q4: Fill in the Blanks:

99-112		195-206	
Number (in figures)	Number (in words)	Number (in figures)	Number (in words)
99	Ninety-nine	195	One hundred ninety-five
100	One hundred	196	One hundred ninety-six
101	One hundred one	197	One hundred ninety-seven
102	_____	198	One hundred ninety-eight
103	One hundred three	_____	One hundred ninety-nine
104	One hundred four	200	Two hundred
_____	One hundred five	201	Two hundred one
106	One hundred six	_____	_____
107	_____	203	Two hundred three
_____	One hundred eight	_____	Two hundred four
109	One hundred nine	205	Two hundred five
110	One hundred ten	206	_____
111	One hundred eleven		
_____	One hundred twelve		

Oh! 206! Guess how many more
to make a triple century?



Answer

99-112		195-206	
Number (in figures)	Number (in words)	Number (in figures)	Number (in words)
99	Ninety-nine	195	One hundred ninety-five
100	One hundred	196	One hundred ninety-six
101	One hundred one	197	One hundred ninety-seven
102	<u>One hundred two</u>	198	One hundred ninety-eight
103	One hundred three	<u>199</u>	One hundred ninety-nine
104	One hundred four	200	Two hundred
<u>105</u>	One hundred five	201	Two hundred one
106	One hundred six	<u>202</u>	<u>Two hundred two</u>
107	<u>One hundred seven</u>	203	Two hundred three
<u>108</u>	One hundred eight	<u>204</u>	Two hundred four
109	One hundred nine	205	Two hundred five
110	One hundred ten	206	<u>Two hundred six</u>
111	One hundred eleven		
<u>112</u>	One hundred twelve		

Oh! 206! Guess how many more
to make a triple century?



Century = 100

runs

Double century = $2 \times 100 = 200$ runs

Triple century = $3 \times 100 = 300$ runs

Total runs = 206

Number of runs required to make 300 = $300 - 206 = 94$

So, 94 more runs are required to make a triple century.

Q5:

Player	Score	Player	Score
A.P.J.	128	M.D.	178
A.S.	100	P.K.	105
C.K.	99	S.T.	141
D.M.	162	T.P.K.	112
K.S.P.	152	V.V.S.	127

- * C.K. just missed his century. How many runs did he need to make a century? _____
- * _____ and _____ scored almost equal runs.
- * _____ scored a complete century, no less, no more.
- * Most runs scored by any batsman are _____.
- * _____ and _____ have a difference of just 1 run between them.
- * _____ scored 2 more than one and a half century.

Answer

Player	Score	Player	Score
A.P.J.	128	M.D.	178
A.S.	100	P.K.	105
C.K.	99	S.T.	141
D.M.	162	T.P.K.	112
K.S.P.	152	V.V.S.	127

- * C.K. just missed his century. How many runs did he need to make a century? 1
- * A.S., C.K. and V.V.S, A.P.J. scored almost equal runs.
- * A.S. scored a complete century, no less, no more.
- * Most runs scored by any batsman are 178.
- * A.S., C.K. and V.V.S, A.P.J. have a difference of just 1 run between them.
- * K.S.P. scored 2 more than one and a half century.

Q6: Counting in 10's

10	110	310	_____
20	_____	_____	720
30	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	780
_____	190	_____	_____
100	200	400	_____

Answer

10	110	310	710
20	120	320	720
30	130	330	730
40	140	340	740
50	150	350	750
60	160	360	760
70	170	370	770
80	180	380	780
90	190	390	790
100	200	400	800

Q7: Counting in 50's

200	550
250	_____
_____	650
350	_____
_____	750
_____	_____
500	850

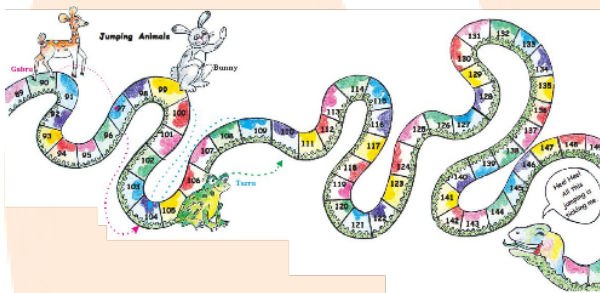
How far can you go like this? What is the biggest number you can call out? _____

Answer

200	550
250	600
300	650
350	700
400	750
450	800
500	850

We can count endlessly, as there is no limit to counting the numbers in 50s. There will always be a bigger number than the previous number.

Q8:



Gabru, Bunny and Tarru are jumping all the way. Gabru jumps on every 7th square, Bunny on every 5th square, Tarru on every 4th square. Gabru starts jumping from square number 90. Bunny starts jumping from square number 99. Tarru starts jumping from square number 106. Bunny's tenth jump is on square number _____. Tarru's tenth jump is on square number _____. Gabru's tenth jump will be on square number _____. Gabru and Bunny both jump on squares 104 _____ and _____.

Find out:

- Tarru and Bunny jump on squares _____, _____, _____ and _____.
- Is there any square where all three of them jump? _____
- Guess who will finish in the least jumps? _____ In how many jumps? _____

Answer

If Bunny starts jumping on every 5th square then in 10th jump Bunny will cover 10×5 steps that is 50 steps. Thus, if bunny starts from square 99 then on 10th jump Bunny will reach square $99 + 50$ that is 149.

If Tarru starts jumping on every 4th square then in 10th jump Tarru will cover 10×4 steps that is 40 steps. Thus, if Tarru starts from square 106 then on 10th jump Tarru will reach square $106 + 40$ that is 146.

If Gabru starts jumping on every 7th square then in 10th jump Gabru will cover 10×7 steps that is 70 steps. Thus, if Gabru starts from square 106 then on 10th jump Gabru will reach square $90 + 70$ that is 146.

- Tarru and Bunny both will jump on squares 114, 134, 154 and 174.
- Tarru, Bunny and Gabru all three of them jump together on square 174.
- Gabru will finish it in the least number of jumps, that is, 8.

Q9:

Jump 2 steps forward:

104, 106, 108, _____, _____, _____, _____.

Jump 2 steps backward:

262, 260, 258, _____, _____, _____, _____.

Jump 10 steps forward:

110, 120, 130, _____, _____, _____, _____.

Jump 10 steps backward:

200, 190, 180, _____, _____, _____, _____.

Continue the pattern:

550, 560, 570, _____, _____, _____, _____.

910, 920, 930, 940, _____, _____, _____, _____.

209, 207, 205, _____, _____, _____, _____.

401, 402, 403, _____, _____, _____, _____.

Answer

Jump 2 steps forward: 104, 106, 108, 110, 112, 114, 116.

Jump 2 steps backward: 262, 260, 258, 256, 254, 252, 250.

Jump 10 steps forward: 110, 120, 130, 140, 150, 160, 170.

Jump 10 steps backward: 200, 190, 180, 170, 160, 150, 140.

Continue the pattern:












550, 560, 570, 580, 590, 600, 610.

910, 920, 930, 940, 950, 960, 970, 980.




















209, 207, 205, 203, 201, 199, 197.

401, 402, 403, 404, 405, 406, 407.

Q10: Find out how many packets of tens, hundreds and loose items each animal will take. Fill in the blanks.

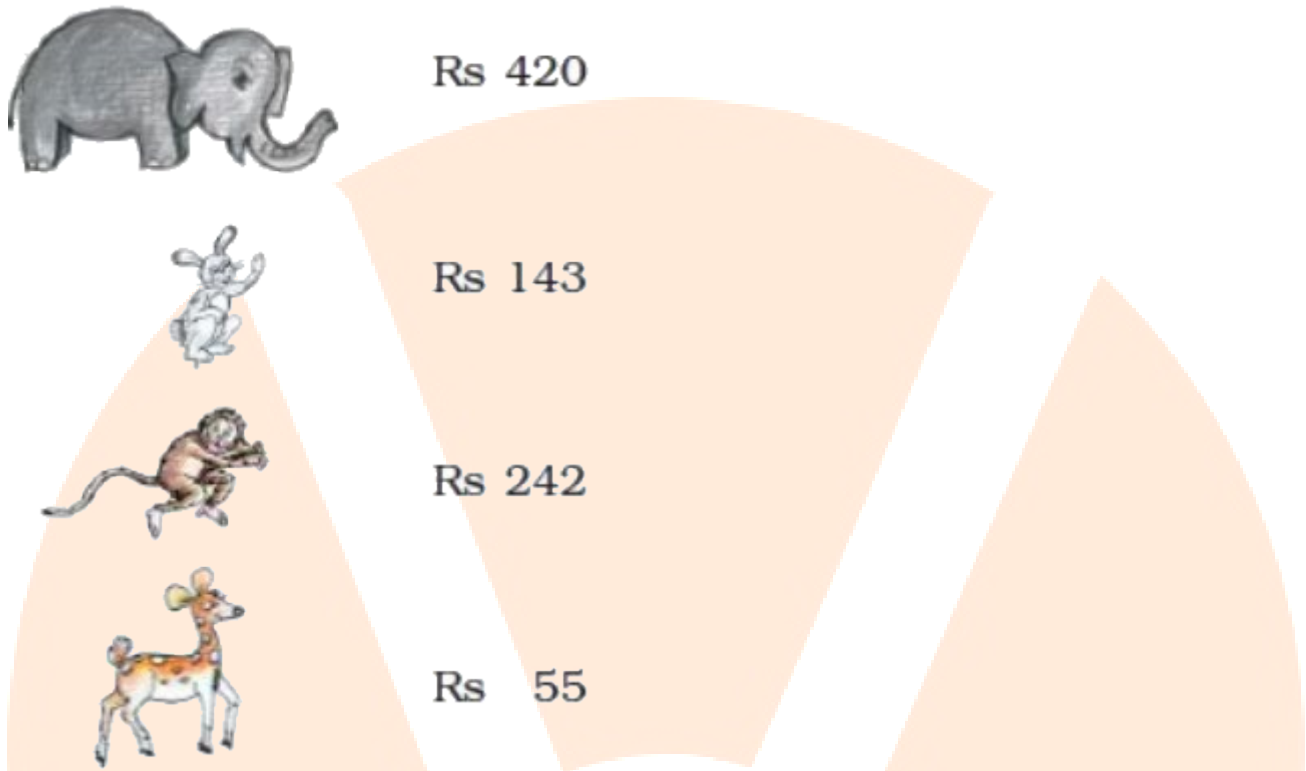
	Packets of 100	Packets of 10	Loose items
  143			
  210	_____	_____	_____
  242	_____	_____	_____
  552	_____	_____	_____

Answer

	Packets of 100	Packets of 10	Loose items
  143			
  210			_____
  242			
  552			

Q11: Lazy Crazy also has a crazy way of taking money. He takes only

in  notes,  notes and  coins. Now find out how they will pay him for what they have taken.



Answer

$$\text{Rs } 420 = \text{Rs } 100 + \text{Rs } 100 + \text{Rs } 100 + \text{Rs } 100 + \text{Rs } 10 + \text{Rs } 10$$

(Four hundred-rupee notes and two ten-rupee notes)

$$\text{Rs } 143 = \text{Rs } 100 + \text{Rs } 10 + \text{Rs } 10 + \text{Rs } 10 + \text{Rs } 10 + \text{Re } 1 + \text{Re } 1 + \text{Re } 1 \text{ (One hundred-rupee note, four ten-rupee notes and three one-rupee coins)}$$

$$\text{Rs } 242 = \text{Rs } 100 + \text{Rs } 100 + \text{Rs } 10 + \text{Rs } 10 + \text{Rs } 10 + \text{Rs } 10 + \text{Re } 1 + \text{Re } 1 \text{ (Two hundred-rupee notes, four ten-rupee notes and two one-rupee coins)}$$

$$\text{Rs } 55 = \text{Rs } 10 + \text{Rs } 10 + \text{Rs } 10 + \text{Rs } 10 + \text{Rs } 10 + \text{Re } 1 + \text{Re } 1 + \text{Re } 1 + \text{Re } 1 + \text{Re } 1$$

(Five ten-rupee notes and five one-rupee coins)



Rs 420



Rs 143



Rs 242



Rs 55



Q12: Who am I? Match with the number.

- I come between 40 and 50 and there is a 5 in my name.
- I have 9 in my name and am very close to 90.
- If you hit a 4 after me, you score a century.
- I am equal to ten notes of 10.
- I am century + half century
- I am exactly in between 77 and 97.

96
150
45
89
87
100

Answer

- I come between 40 and 50 and there is a 5 in my name.
- I have 9 in my name and am very close to 90.
- If you hit a 4 after me, you score a century.
- I am equal to ten notes of 10.
- I am century + half century
- I am exactly in between 77 and 97.

96
150
45
89
87
100

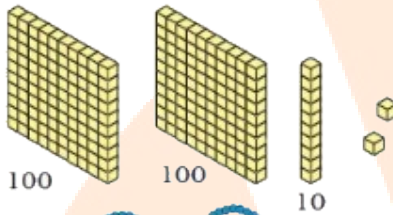
Q13: How Many are these?



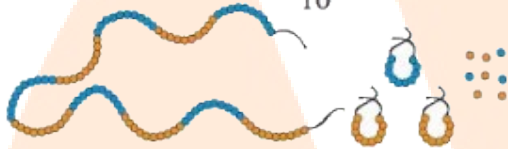
_____ rupees



_____ sticks



_____ blocks



_____ beads



_____ rupees

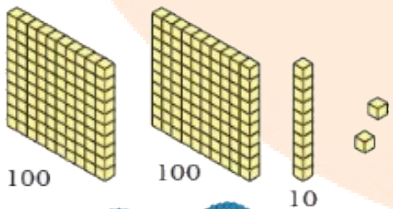
Answer



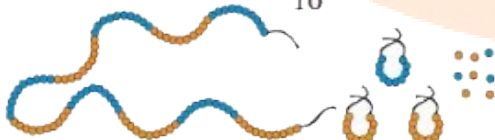
240 rupees



319 sticks



212 blocks





138 beads













320 rupees

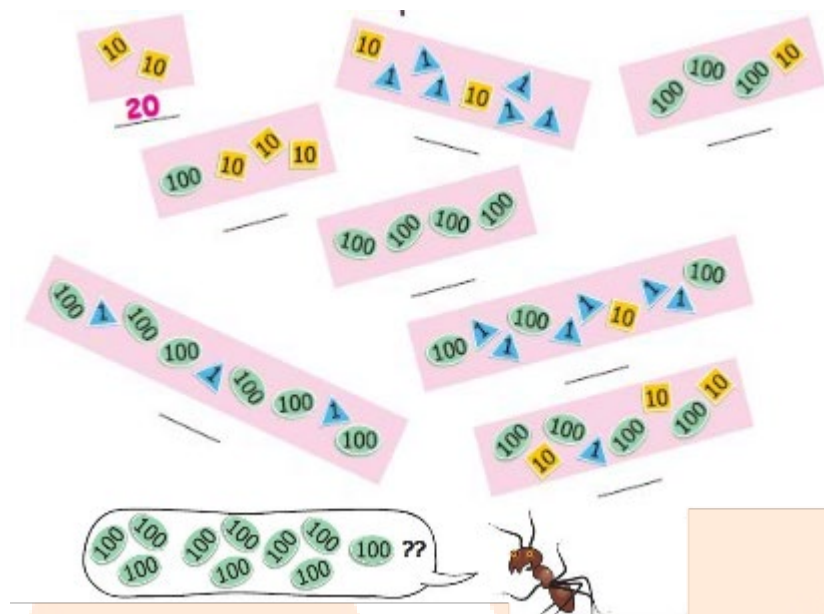
Q14: Which cards will I have in my pocket if I have counted up to...

- a. 19 → 
- b. 21 →
- c. 95 →
- d. 201 → 
- e. 260 →
- f. 300 →
- g. 306 →
- h. 344 →
- i. 350 →
- j. 400 →

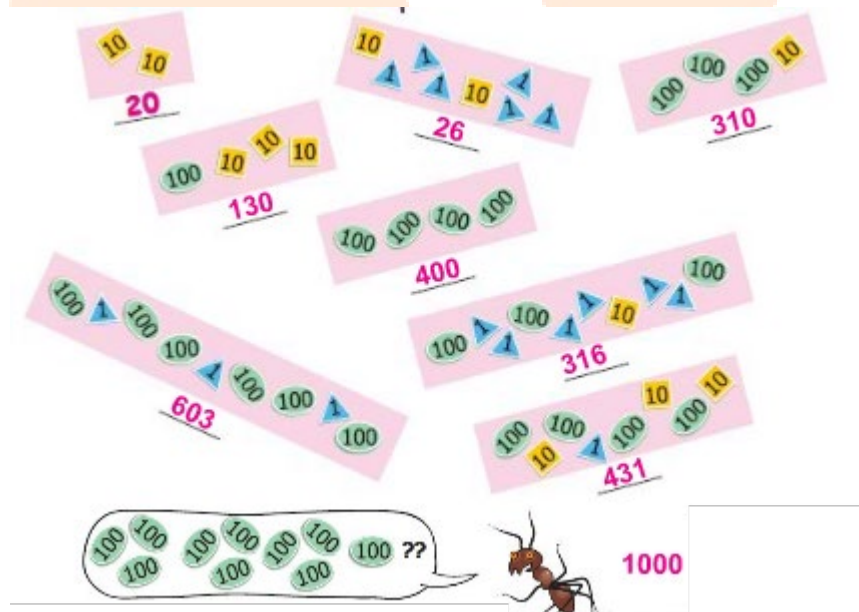
Answer

- a. 19 → 
- b. 21 → 
- c. 95 → 
- d. 201 → 
- e. 260 → 
- f. 300 → 
- g. 306 → 
- h. 344 → 
- i. 350 → 
- j. 400 → 

Q15: When I had **10 10** cards in my pocket, I knew I had counted 20 stars. Now you tell me the number of stars counted in each case. Write the answer in the blank space.



Answer



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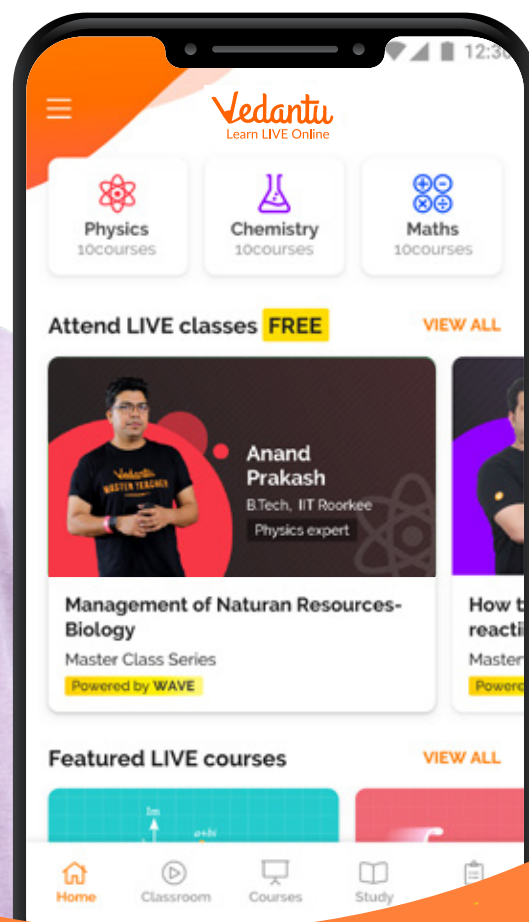
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