

Date: _____

W.S (2.C.1) - Compose and Decompose 3-Digit Numbers.

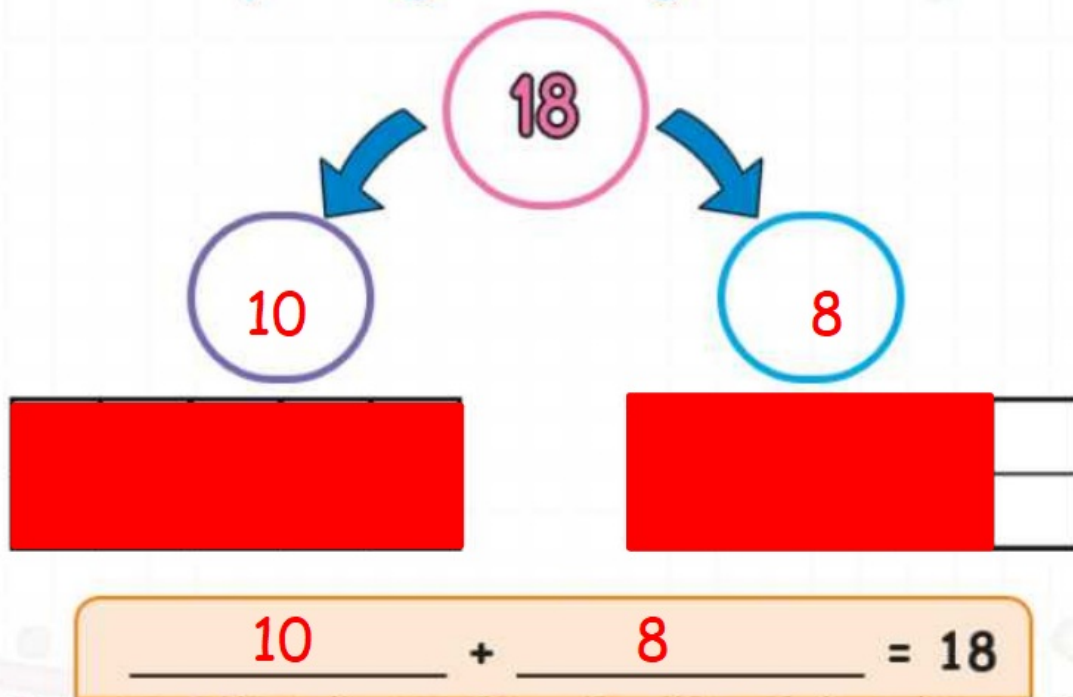
Objectives: Compose and decompose numbers using 10s and 1s.

Write a number using hundreds, tens and ones.

Put hundreds, tens and ones together to make a number.

Regroup 2-digit numbers.

Composing 18 using 1s and 10s



composing
use 10s and 1s

greater number is at the end
of the number sentence

Q1. Compose numbers using 10s and 1s

$$\underline{10} + \underline{9} = 19$$

$$\underline{10} + \underline{1} = 11$$

$$\underline{10} + \underline{5} = 15$$

$$\underline{10} + \underline{3} = 13$$

$$\underline{10} + \underline{0} = 10$$

$$\underline{10} + \underline{7} = 17$$

Now you try! Compose 16 using 10s and 1s.

$$\underline{10} + \underline{6} = \underline{16}$$

Q2. Decompose numbers using 10s and 1s

$$17 = \underline{10} + \underline{7}$$

$$13 = \underline{10} + \underline{3}$$

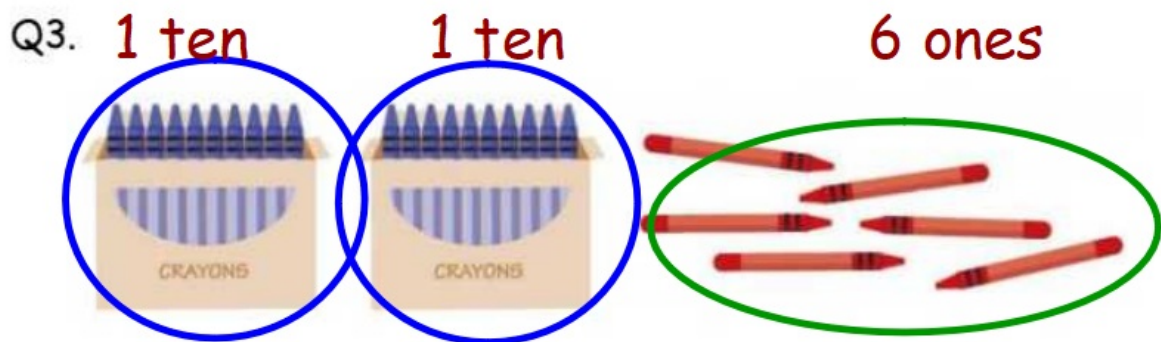
$$19 = \underline{10} + \underline{9}$$

$$15 = \underline{10} + \underline{5}$$

Now you try! Decompose 14 using 10s and 1s.

$$\underline{14 = 10 + 4} \quad \text{Decompose*}$$

greater number and equal sign are in the beginning of the number sentence ³⁸



- How many tens are there? 2
- How many ones are there? 6
- There are 2 tens and 6 ones so there are 26 in total.
- we can compose 26 using 10s and 1s:

$$\underline{20} + \underline{6} = \underline{26}$$
- we can decompose 26 using 10s and 1s:

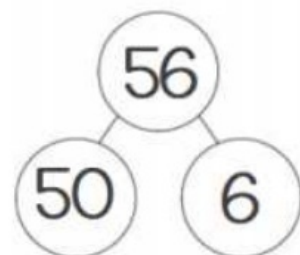
$$\underline{26} = \underline{20} + \underline{6}$$

Q4. Compose the numbers using 10s and 1s.

equal sign at the end

56:

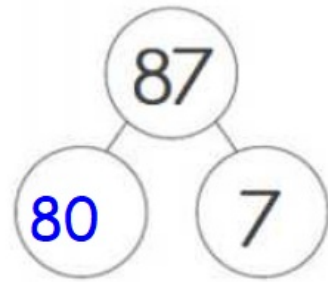
$$\underline{50} + \underline{6} = 56$$



Compose (equal sign at the end)

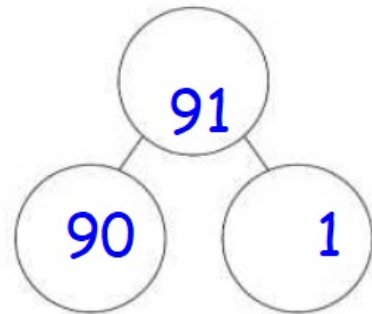
87:

$$\underline{80} + \underline{7} = 87$$



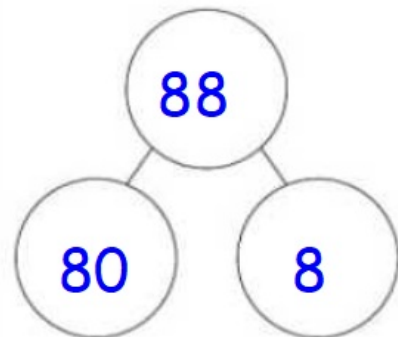
91:

$$\underline{90} + \underline{1} = 91$$



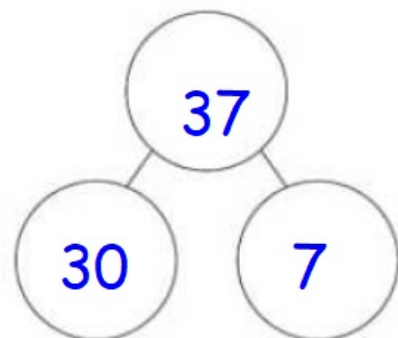
88:

$$\underline{80 + 8 = 88}$$

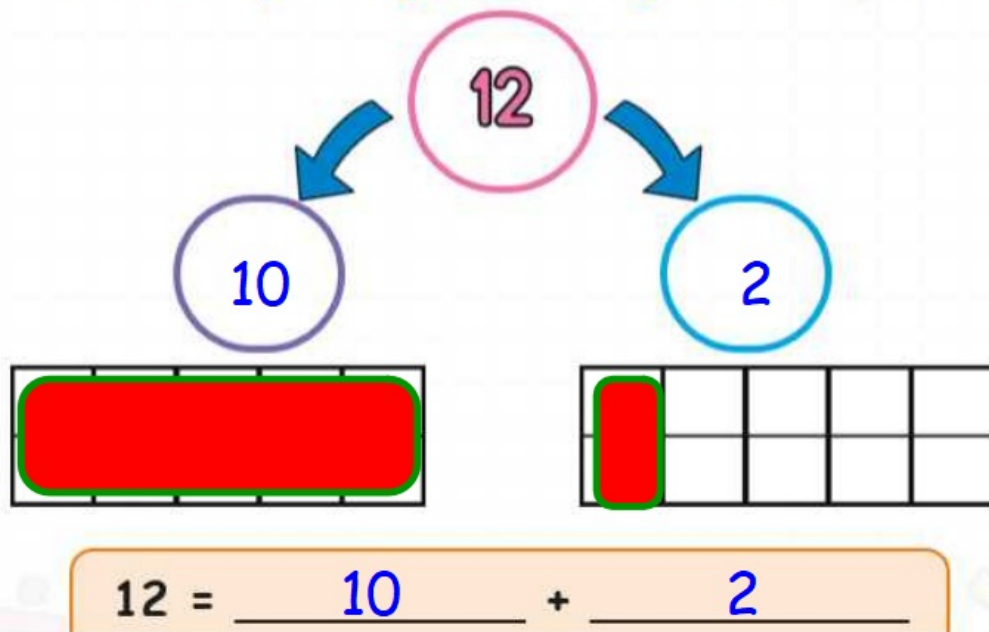


37:

$$\underline{30 + 7 = 37}$$



Decomposing 12 using 1s and 10s

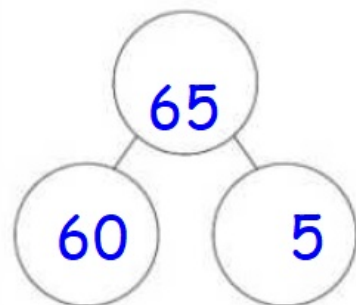


equal sign in the beginning

Q5. Decompose the numbers using 10s and 1s.

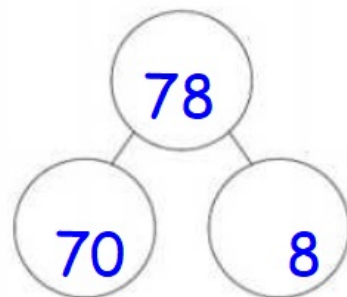
65:

$$65 = \underline{60} + \underline{5}$$



78:

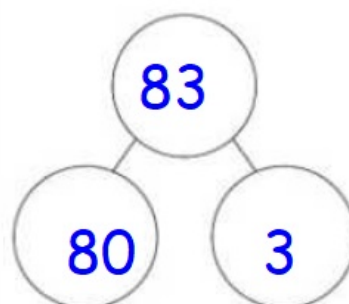
$$78 = \underline{70} + \underline{8}$$



Decompose (equal sign in the beginning)

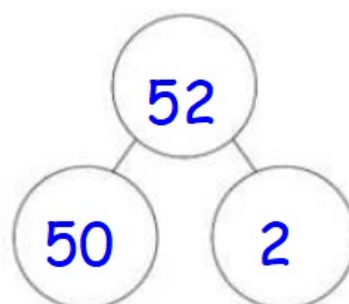
83:

$$\underline{83 = 80 + 3}$$



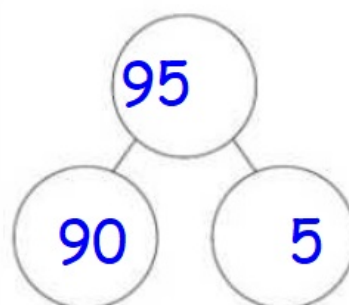
52:

$$\underline{52 = 50 + 2}$$



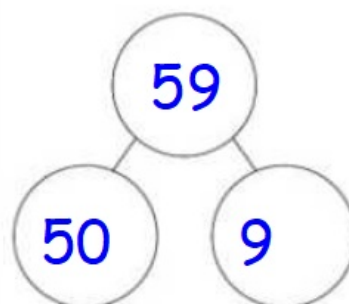
95:

$$\underline{95 = 90 + 5}$$



59:

$$\underline{59 = 50 + 9}$$



Alien Numbers

The aliens are speaking another language and only mathematicians can hear them. Write the numbers the aliens are saying using numerals.

Group 1 (Green Oval):

- Alien 1 (Orange): $30 + 6$ → 36
- Alien 2 (Purple): $20 + 10 + 6$ → 36

Group 2 (Red Oval):

- Alien 3 (Blue): $50 + 5 + 1$ → 56
- Alien 4 (Light Blue): $30 + 20 + 5 + 1$ → 56
- Alien 5 (Green): $20 + 30 + 6$ → 56

Group 3 (Yellow Oval):

- Alien 6 (Dark Green): $80 + 1 + 1$ → 82
- Alien 7 (Pink): $40 + 40 + 2$ → 82
- Alien 8 (Pink with spots): $30 + 50 + 2$ → 82

Q6. Regroup the numbers.

69: $\underline{69 = 30 + 30 + 5 + 4}$ any other correct option is acceptable.

35: $\underline{35 = 20 + 10 + 1 + 2}$ any other correct option is acceptable.

92: $\underline{92 = 50 + 40 + 1 + 1}$ any other correct option is acceptable.

88: $\underline{88 = 40 + 40 + 4 + 4}$ any other correct option is acceptable.

Q7. Fill in the blanks.

$36 = \underline{30} + 5 + \underline{1}$

$57 = 50 + \underline{4} + 2 + 1$

$67 = 20 + \underline{40} + 7$

$29 = 10 + \underline{10} + 5 + \underline{4}$

Q8. Find the numbers.

a) $600 + 2 = \underline{602}$

b) $300 + 50 + 8 = \underline{358}$

c) $800 + 90 = \underline{890}$

d) $100 + 70 + 1 = \underline{171}$

Q9. Fill in the blanks.

a) $879 = \underline{8}$ hundreds + $\underline{7}$ tens + $\underline{9}$ ones

When the words are written (hundreds/tens/ones), we don't write the zeros

b) $879 = \underline{800} + \underline{70} + \underline{9}$

c) $952 = 900 + \underline{50} + \underline{2}$

When the words are not written, we write the numbers with zeros

d) $532 = \underline{500} + \underline{30} + 2$

Q10. Decompose the following numbers.

a) 234: $\underline{2}$ hundreds, $\underline{3}$ tens, $\underline{4}$ ones

b) 501: $\underline{5}$ hundreds, $\underline{0}$ tens, $\underline{1}$ ones

c) 671: $\underline{6}$ hundreds, $\underline{7}$ tens, $\underline{1}$ ones

d) $594 = 500 + \underline{90} + \underline{4}$

e) $107 = \underline{100} + 7$

f) $312 = 300 + \underline{10} + \underline{2}$

g) $630 = \underline{600} + \underline{30}$

Q11. Fill in the blanks to compose the numbers.

a) $700 + 60 + 8 = \underline{768}$

b) $500 + \underline{50} + 7 = 557$

c) $\underline{200} + 8 = 208$

Q12. Decompose the following numbers.

378 = 300 + 70 + 8
874 = 800 + 70 + 4
298 = 200 + 90 + 8
319 = 300 + 10 + 9
752 = 700 + 50 + 2

835 = 800 + 30 + 5
512 = 500 + 10 + 2
128 = 100 + 20 + 8
624 = 600 + 20 + 4
774 = 700 + 70 + 4

Q13. Write the following numbers in standard form.

400 + 70 + 3 = 473
600 + 20 + 6 = 626
900 + 30 + 5 = 935
700 + 30 + 8 = 738
300 + 70 + 4 = 374
800 + 10 + 7 = 817

200 + 60 + 7 = 267
500 + 90 + 2 = 592
100 + 40 + 7 = 147
200 + 50 + 2 = 252
300 + 30 + 6 = 336
700 + 20 + 1 = 721

Q14. Write these numbers in numerals then fill the place value chart.

a)

Three hundred and nine
309

Eight hundred and forty-two
842

One hundred and eleven
111

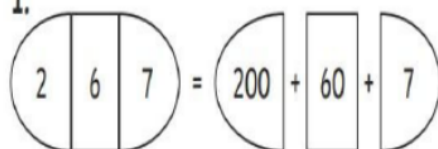
Five hundred ninety-seven
597

Seven hundred and twenty-five
725

Number in standard form	Hundreds	Tens	Ones
309	3	0	9
842	8	4	2
111	1	1	1
597	5	9	7
725	7	2	5

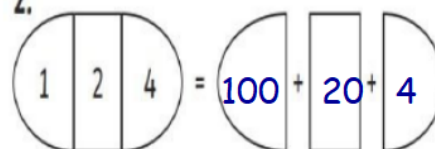
Q15. Decompose the following numbers into hundreds, tens and ones. The first one is done for you.

1.



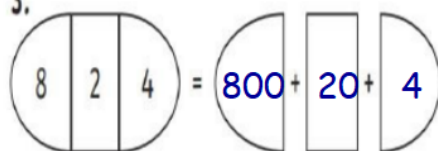
$$267 = 200 + 60 + 7$$

2.



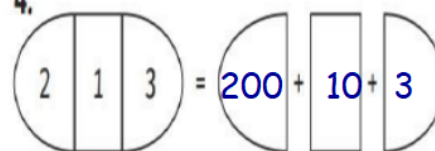
$$124 = 100 + 20 + 4$$

3.



$$824 = 800 + 20 + 4$$

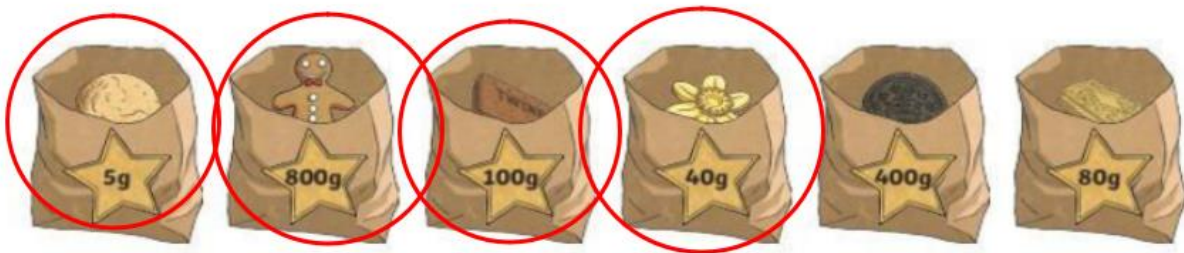
4.



$$213 = 200 + 10 + 3$$

Q16. Rami needs nine hundred forty - five grams of biscuits for his Nan. Which four bags should he pick up? Circle the bags.

$$945 = 800 + 100 + 40 + 5$$



Q17. Match.

$140 + 5 = 145$	14 ⁰ tens + 5 ones		784
$400 + 100 + 30 + 6$	$400 + 130 + 6$		536
$860 + 2 = 862$	86 ⁰ tens + 2 ones		308
	$300 + 8$ ones		862
$760 + 20 + 4 =$	76 ⁰ tens and 24 ones		145

Red lines connect the equations to the numbers: 140+5=145 to 145, 400+100+30+6 to 536, 860+2=862 to 862, 300+8 ones to 308, and 760+20+4= to 784.