



The 5s Numbers Game

5s is often one of the first steps in a LEAN project

Sort

Set in order

Shine

Standardize

Sustain

5S – Set Up

- In approx. 30 min. you will feel what it's like to be on a LEAN improvement team
 - Experience frustration of performing what should be a simple task in a disorganized workplace
 - Experience the incremental improvement of using **5s**
 - Each step will take you further into **5s**
 - It is important to NOT look ahead
 - Each step is simple to follow
 - Peaking ahead will “*spoil*” your experience
 - Will need a pen or pencil
-

The worksheet on the following page represents the Current State of the Workplace [no peeking]

- Your job is to use a pen or pencil to Strike Out the numbers 1 to 49 in Correct Sequence.

Example: ~~1~~ ~~2~~ ~~3~~

- You have 30 seconds to complete this task
 - The timekeeper will tell you when to start and stop
 - After time is called record on a Flipchart the how many numbers each individual crossed out
 - Circle the HIGHEST and LOWEST numbers for this round
 - You will have more chance in next rounds
-

How do you feel about
your score?

What appeared to get in the way of
achieving a higher score?

We are going to implement 5S in your area the first step is

Sort

Our initial analysis shows number 50 to 90 are not essential to our daily task ... they have been removed from the work area

- In a moment you will repeat “strike out” task
 - Same rules apply
 - Pen to strike out numbers 1 – 49 in sequence
 - 30 seconds when timekeeper says start and stop
 - After - record on a Flipchart - Circle the HIGHEST and LOWEST for your group
-

36

27⁹

18

45

33

15

7

25

53

44

17

34

8

92

16

43

23

4

41⁵

31

13

40

32

64

22

14

6

42

24

30

2

11

10

37

48

12

21

39

29

07

38

47

28

46

19

3

How do you feel about
your score?

What appeared to get in the way of
achieving a higher score?

After some improvement we'll
move to the next step

Set In Order (a.k.a “Straighten”)

- We have installed some racking on the job site using a 3 X 3 grid
- We have organized the numbers
 - #1 is in bottom left, 2 in middle left, 3 in top left, 4 in bottom middle, 5 in middle middle... and so on up to 49
- Strike out 1-49
- Same rules apply – 30 sec.
- Record

3	6	9
2	5	8
1	4	7

<p>36</p> <p>27⁹ 8</p> <p>45</p> <p>33 15</p>	<p>24</p> <p>42</p> <p>6</p>	<p>30</p> <p>21</p> <p>48</p> <p>39</p> <p>3</p> <p>12</p>
<p>7</p> <p>25</p> <p>34</p> <p>16</p> <p>43</p> <p>8</p> <p>44^{5c}</p> <p>17</p> <p>26</p> <p>9</p>	<p>23</p> <p>41⁵</p> <p>32</p> <p>14</p> <p>3</p>	<p>2</p> <p>20</p> <p>47</p> <p>11</p> <p>38</p> <p>29</p>
<p>4</p> <p>31</p> <p>40</p> <p>22</p> <p>6</p> <p>7</p> <p>13</p>	<p>10</p> <p>37</p> <p>19</p> <p>28</p> <p>46</p>	<p>3</p> <p>21</p> <p>48</p> <p>39</p> <p>3</p> <p>12</p>

How do you feel about
your score?

What appeared to get in the way of
achieving a higher score?

We will skip step 3 “Shine and
move to the step 4
Standardize

After an in-depth work flow analysis, we installed a more detailed racking system

- We re-organized the numbers in a **Standard Way** to ease the completion of the task
 - Strike out 1-49
 - Same rules apply – 30 sec.
 - Record
-

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	

How do you feel about
your score?

What appeared to get in the way of
achieving a higher score?

Quality Audit Alert:

- We have recently discovered 2 numbers are missing
 - We can not finish our work without them
 - Your team's task is to identify the two missing numbers
-

Find Missing Numbers

In a moment we will...

- Start timer
 - Flip over page
 - Find missing numbers
 - Let your team know without telling other teams
 - Raise your hands when you find the missing #s
 - Timekeeper – will call out the number of shifts
 - Shifts are 30 seconds long
 - Track number of shifts to find missing #s
-

21 27 27 36 72
30 33 45 51 54 54 62
38 47 48 53 68 68
28 37 43 43 58 61 68
19 21 22 25 31 31 31
10 11 14 15 17 17 17
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 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

Find Missing Numbers

*Lets try that again in a workplace that has experience with **Sort, Set in Order** and **Standardization** steps of **5S**.*

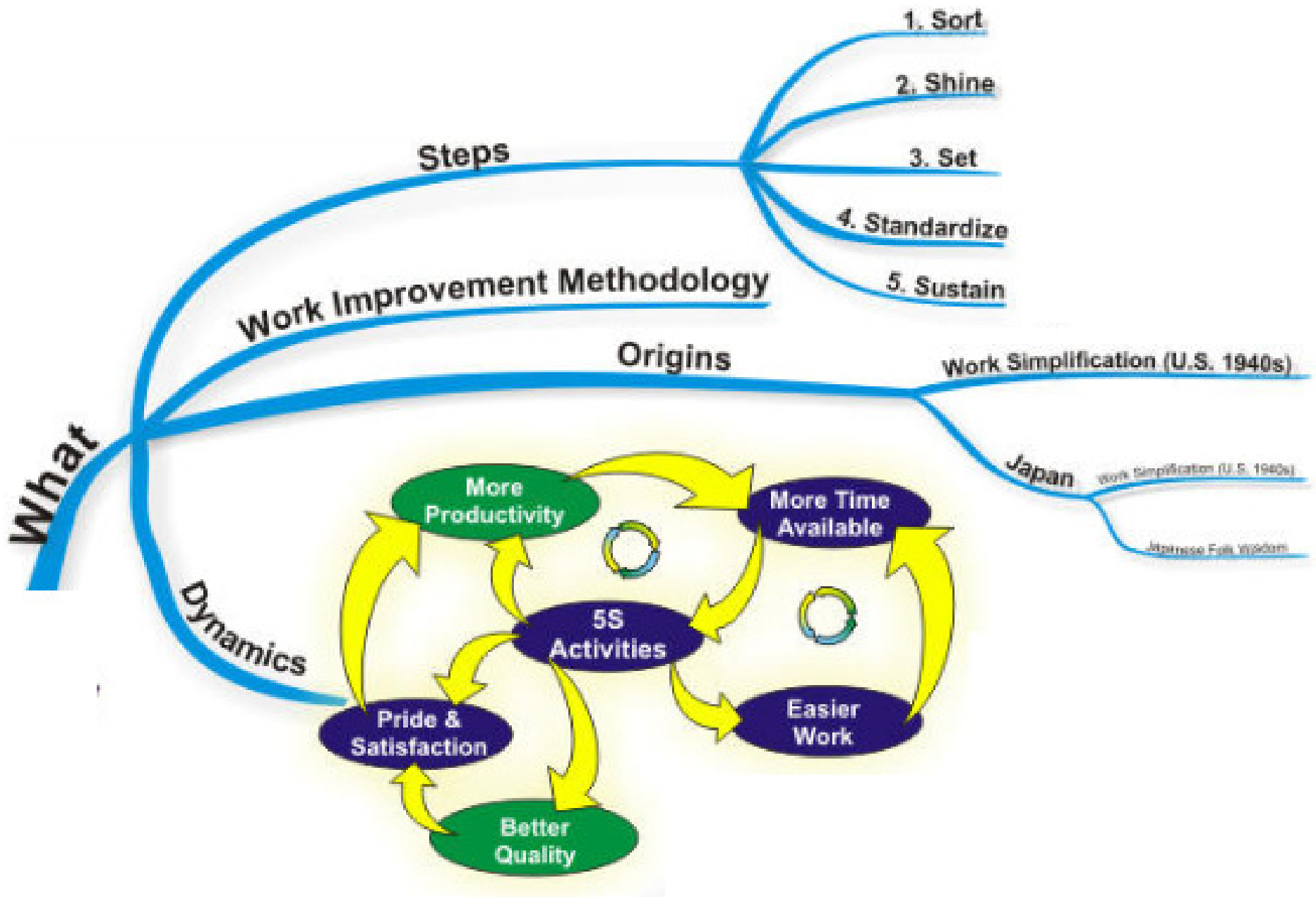
- Same process - Find missing numbers
 - track number of shifts
-

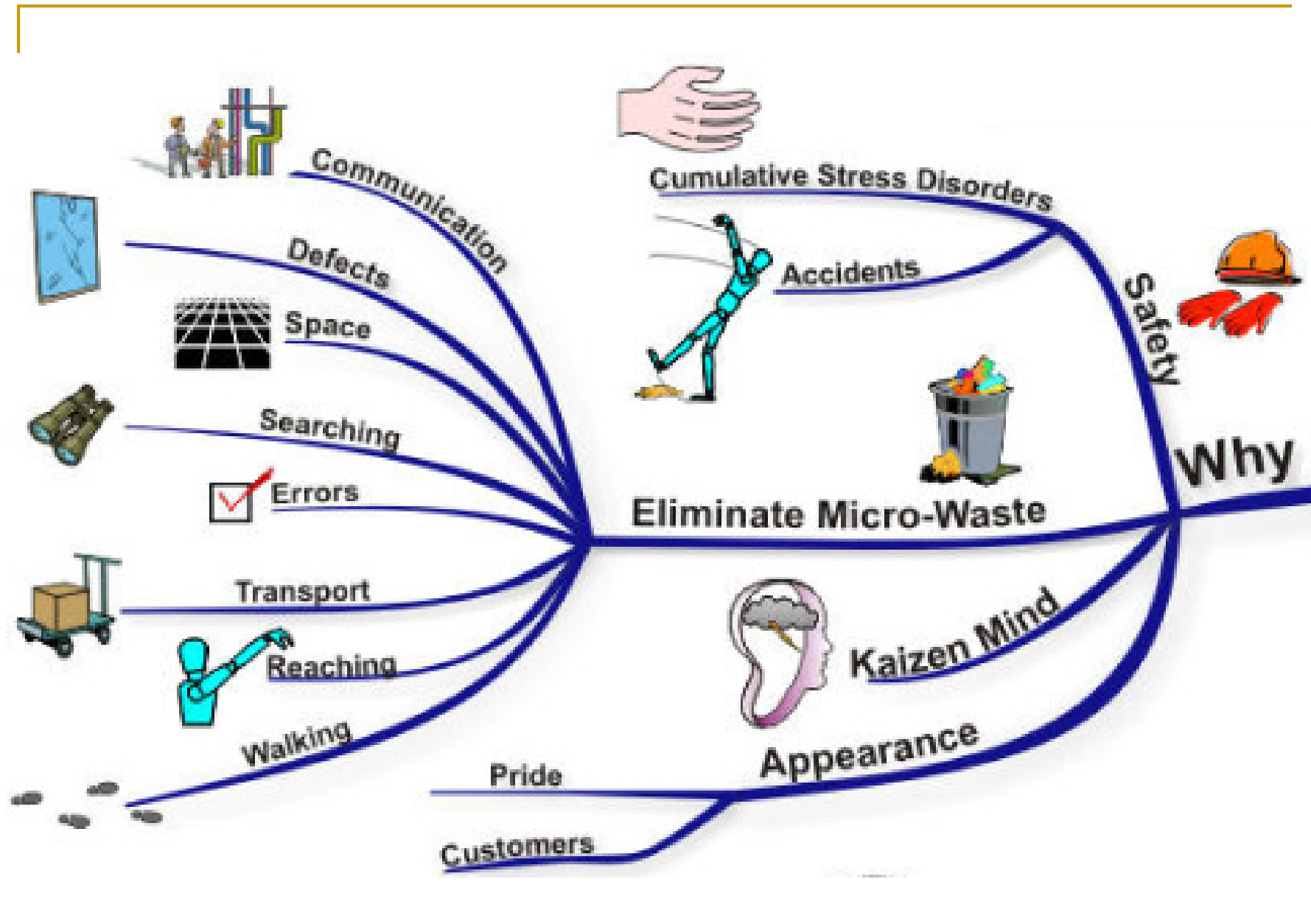
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17		19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41		43	44	45	46	47	48	49	

Payoff Questions

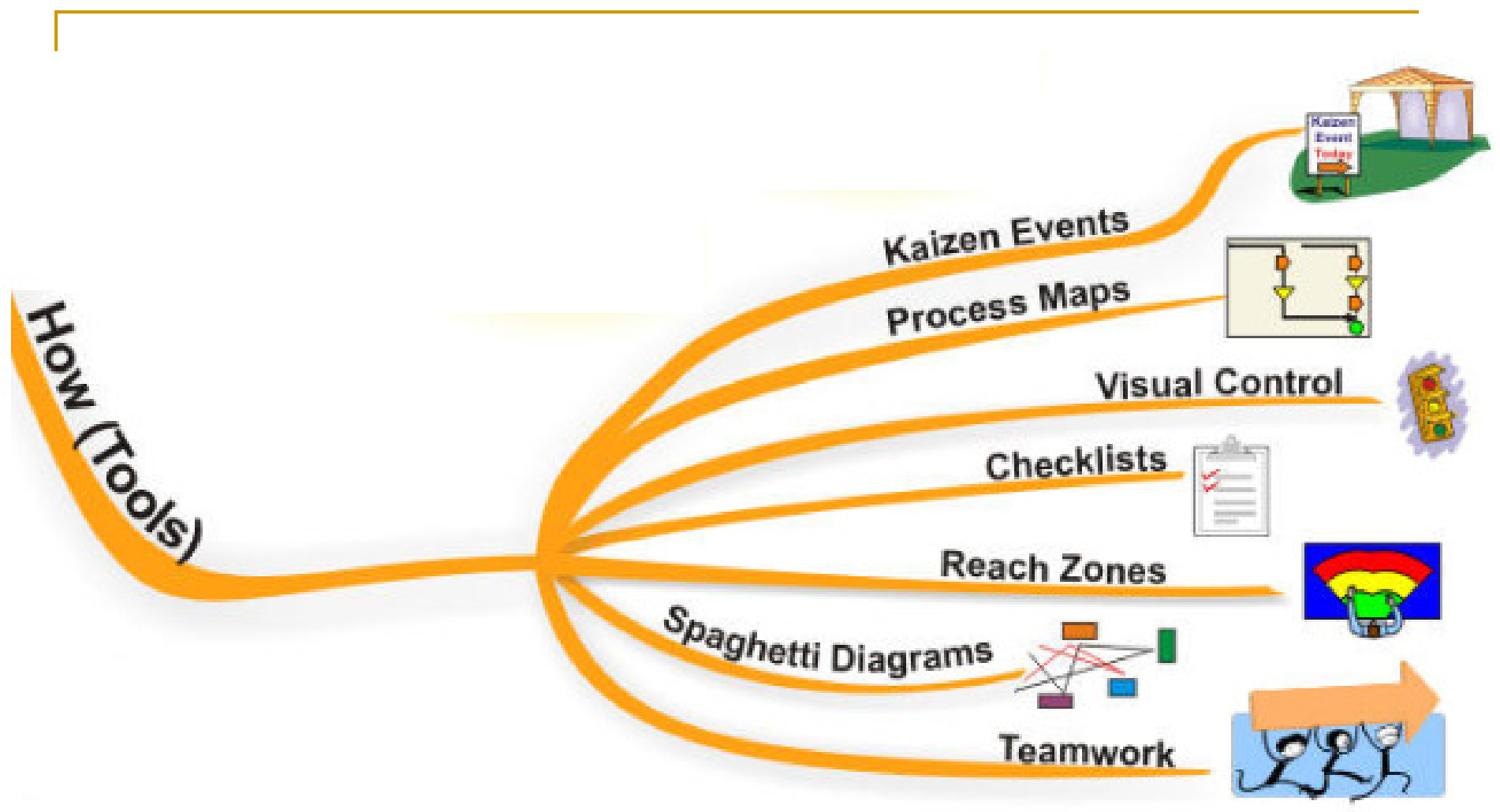
- What did you learn playing the **5S** game?
 - What does this have to do with your workplace?
 - Consider some specific things you do
A Key Process or Service
 - How would you apply **5S**?
 - What difference would it make?
-











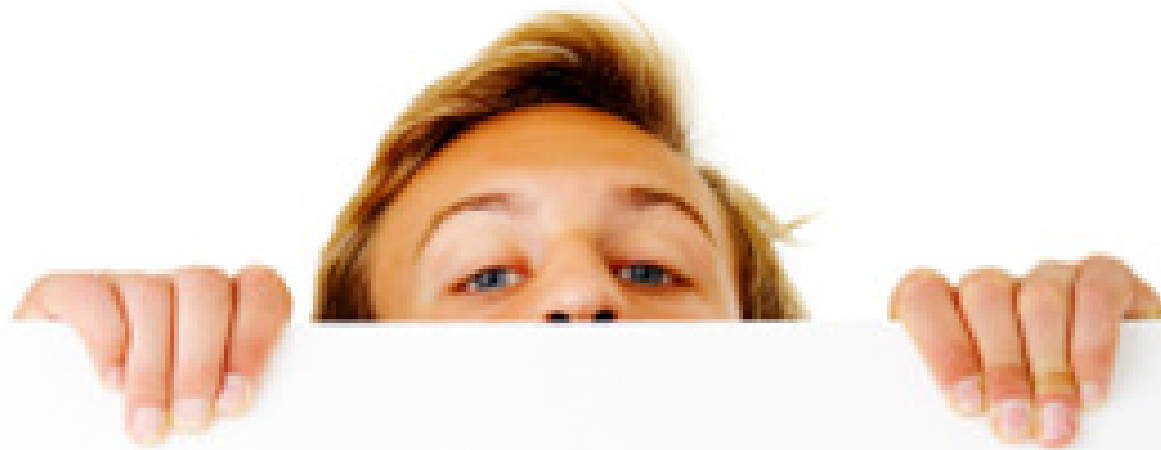
5S – Gone Wrong



End

Handouts for 5S game on following slides

5s Exercise



**No
Peeking**



Current Workplace

Sheet 1



No
Peeking

Top



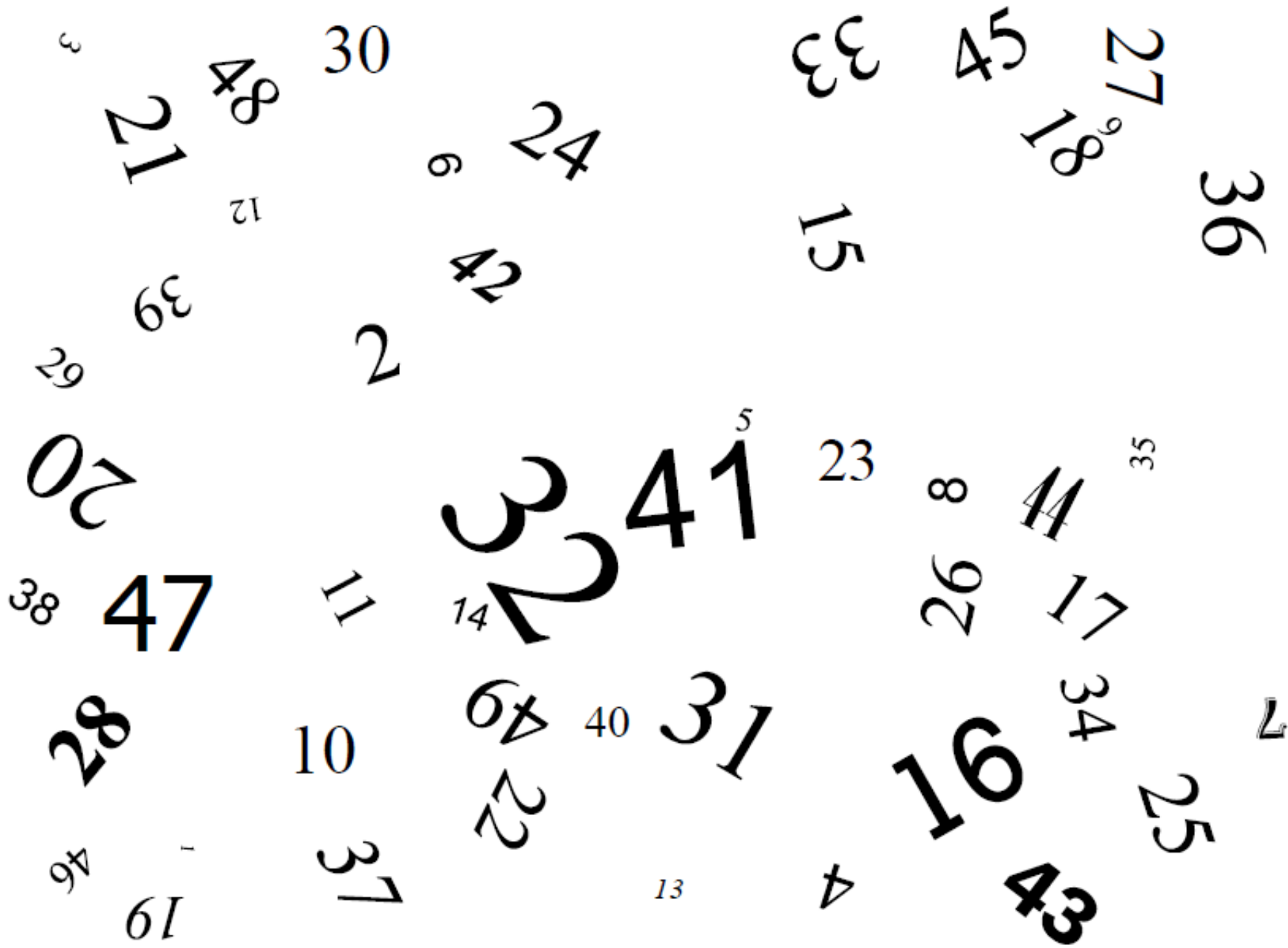
Sort

Sheet 2



No
Peeking

Top



Set in Order

Sheet 3



Top

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

Standardize

Sheet 4



Top

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	

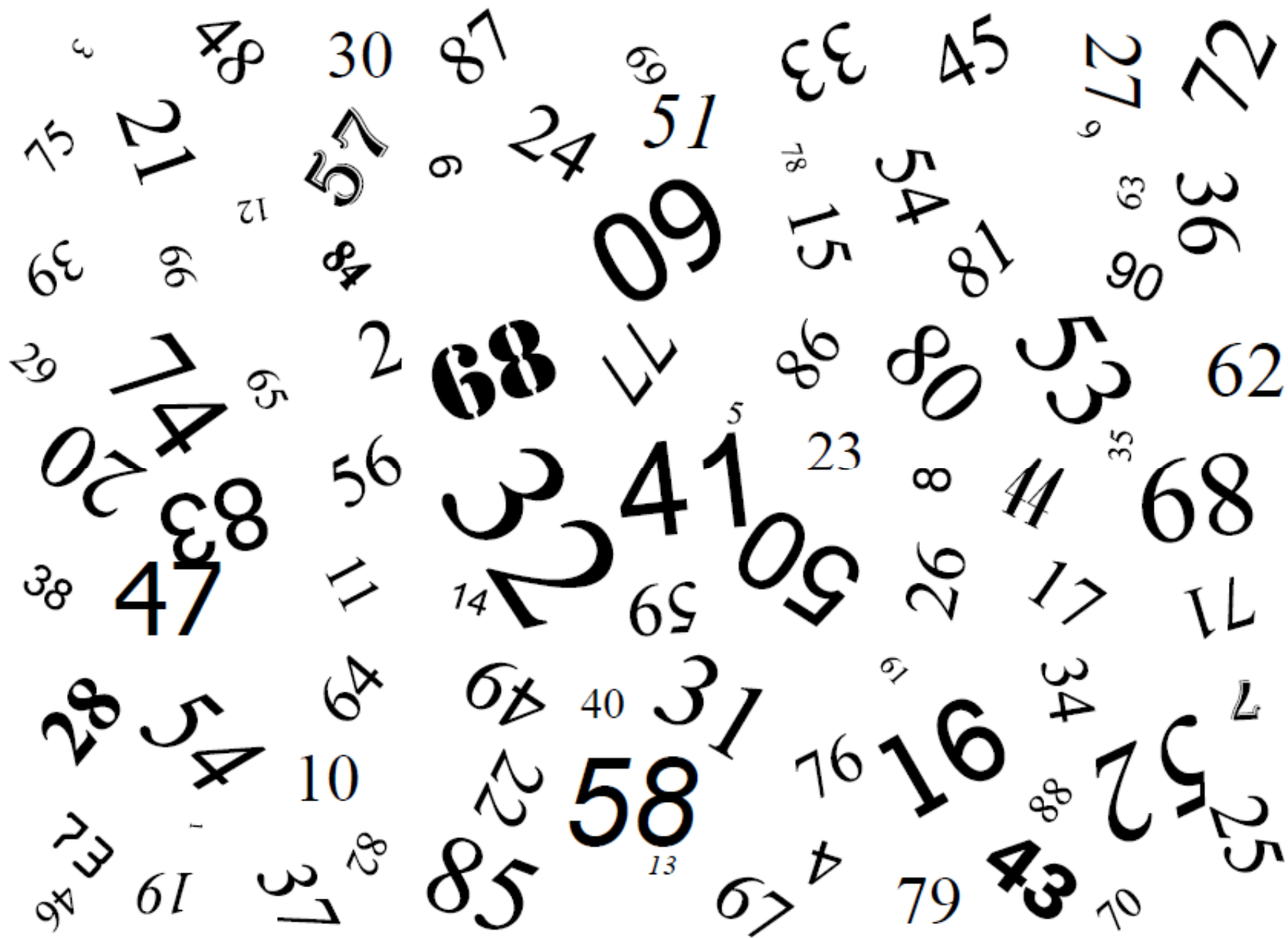
Find 2 missing Numbers

Sheet 5



No
Peeking

Top



Find missing numbers
after **5S**

Sheet 6



No
Peeking

Top

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