



# MATHEMATICS



**N.S. Yr. 2 P.17**

**Estimation and approximation**

## Equipment

Paper, pencil, ruler

# MathSphere

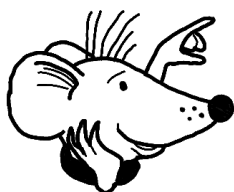
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## **Concepts**

In year two children will continue to make estimates of numbers and measurements, usually up to about 50. This could involve the number of marbles in a jar, counters in a pile, potatoes in a bag etc and a great deal of practice at estimating can be done in the outside environment.

The main development in year two is to estimate a number along a blank number line, between one and ten, or to estimate a position. There are several examples of this in the module, developing to use different lengths for the number line.

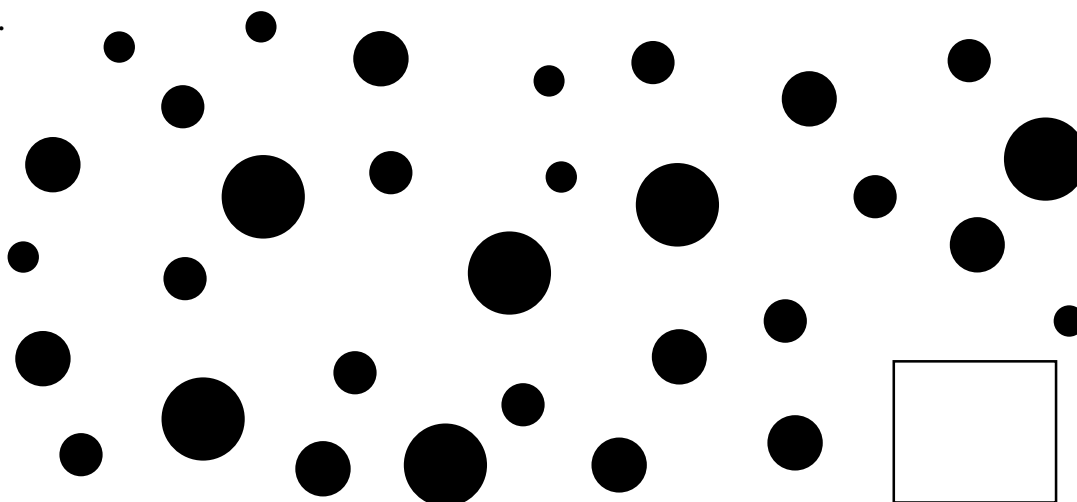
An important part of this is to question the child as to how they decided where to place the arrow or number- using language such as: 'close to half way' etc.

**Spots on a card - estimate**

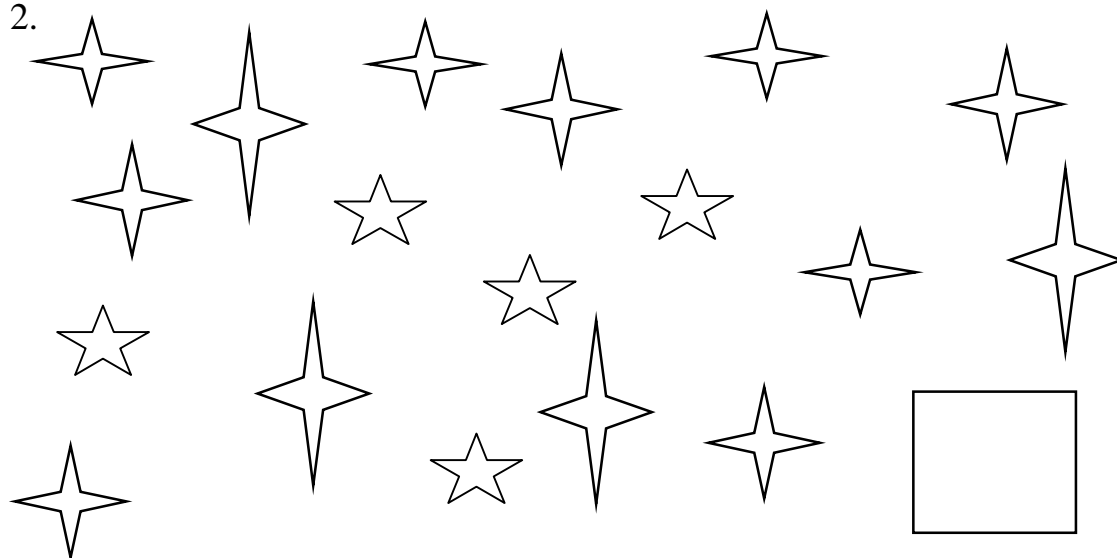
Have a quick look at these cards and estimate the number of dots and stars on each.

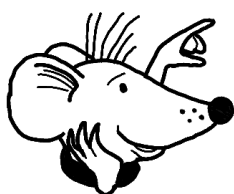
**Do Not Count** - just have a quick guess!

1.



2.

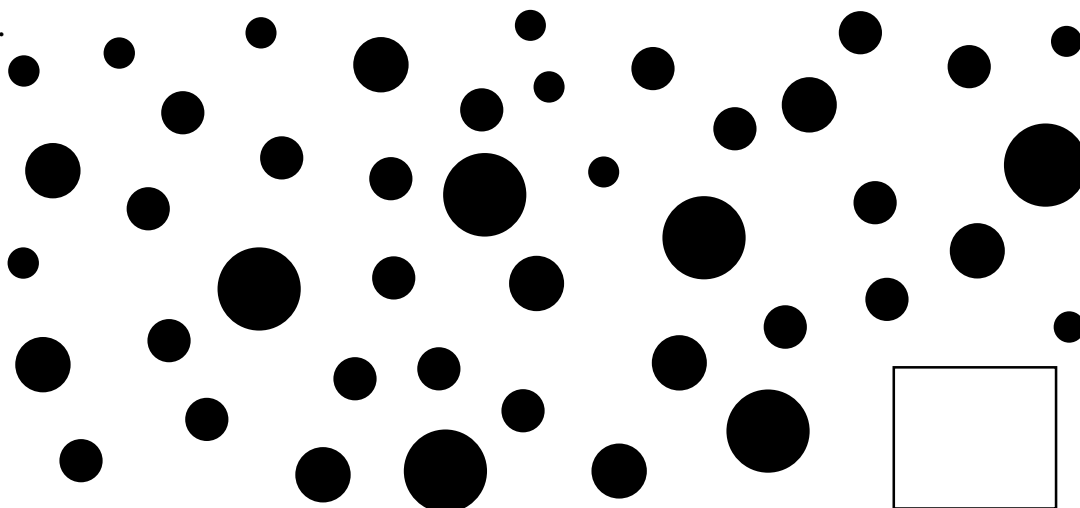


**Spots on a card - estimate**

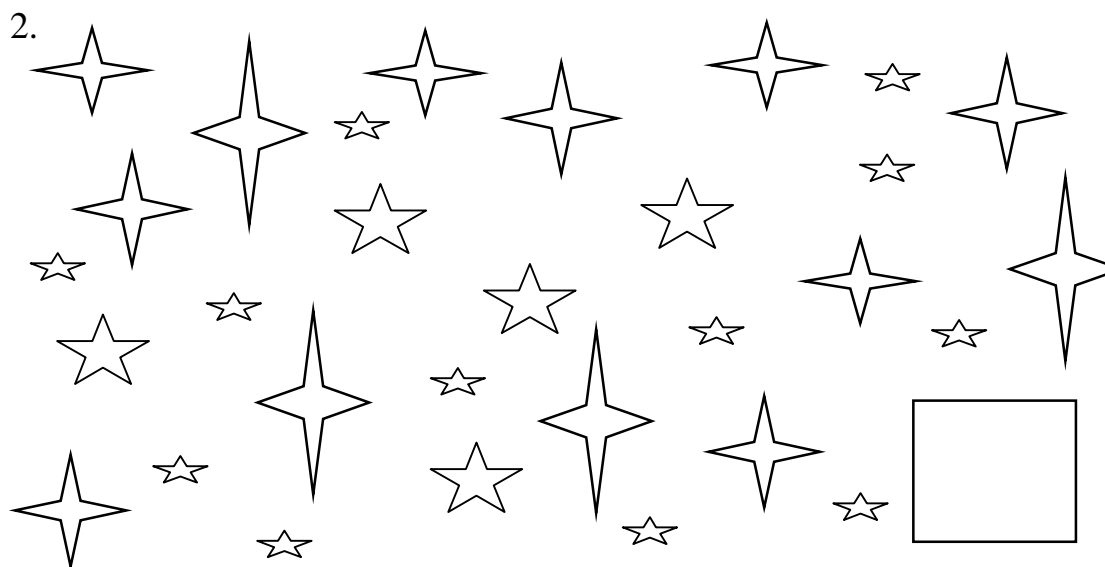
Have a quick look at these cards and estimate the number of dots and stars on each.

**Do Not Count** - just have a quick guess!

1.

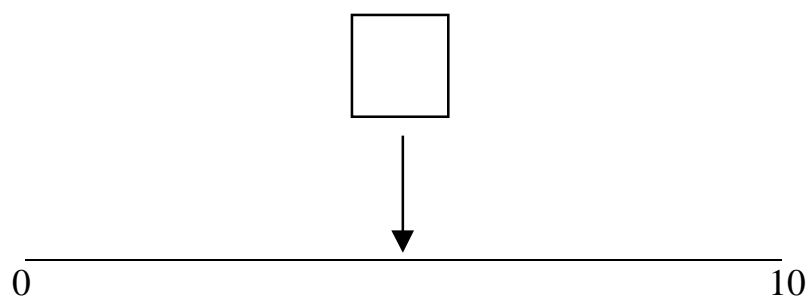


2.



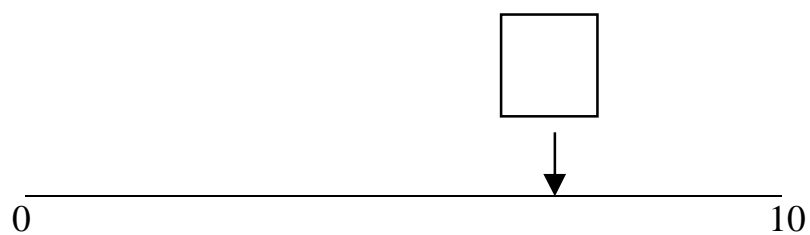
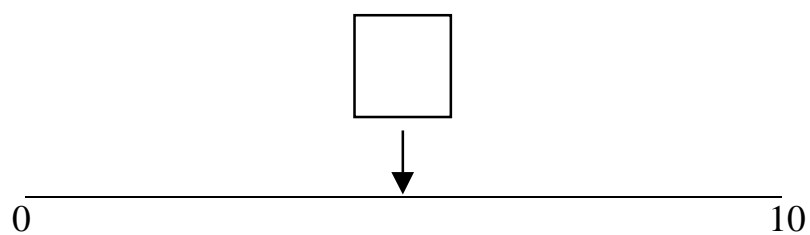
**Estimate on a number line**

**Estimate where the arrow is pointing on the number line.  
Put your estimate in the box.**



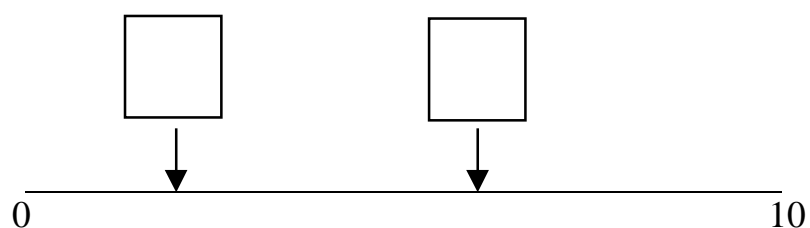
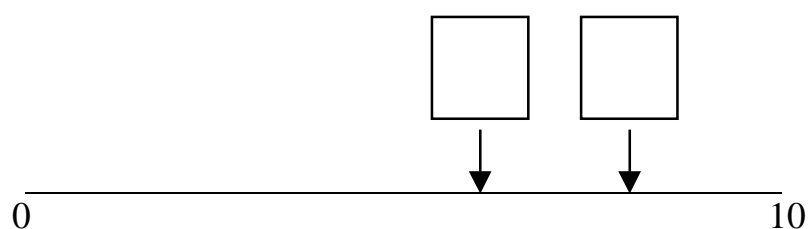
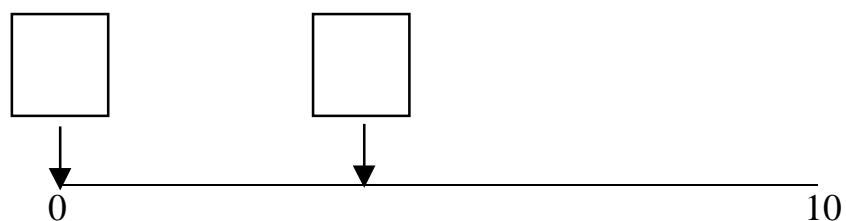
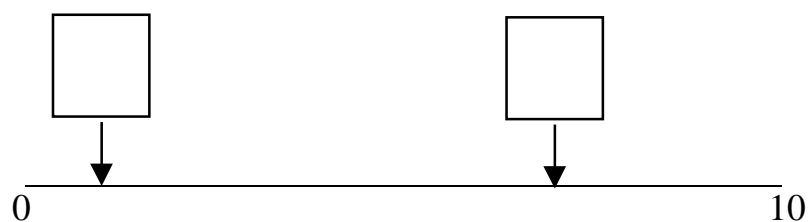
**Estimate on a number line**

**Estimate where the arrow is pointing on the number line.  
Put your estimate in the box.**



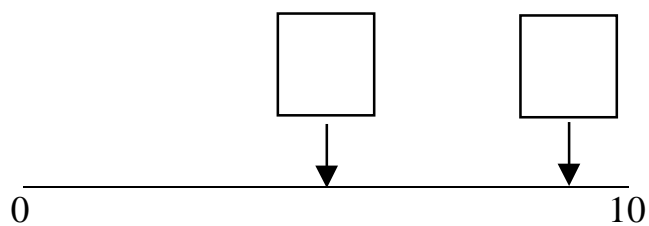
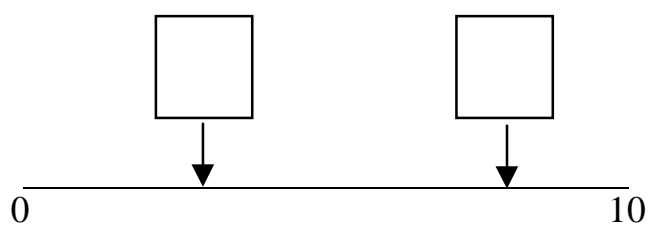
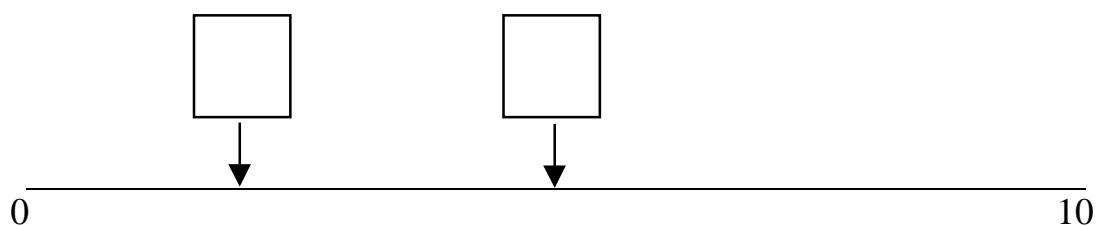
**Estimate on a number line**

**Estimate where each arrow is pointing on the number line.  
Put your estimates in the boxes.**



**Estimate on a number line**

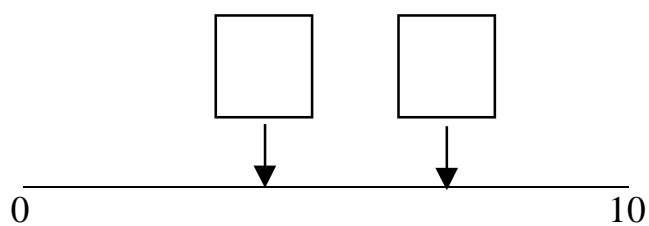
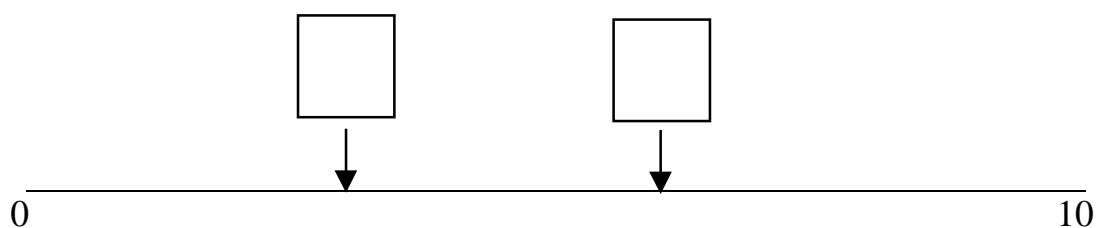
**Estimate where each arrow is pointing on the number line.  
Put your estimates in the boxes.**





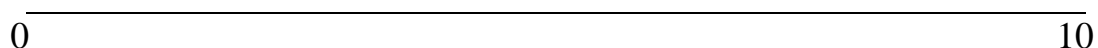
**Estimate on a number line**

**Estimate where each arrow is pointing on the number line.  
Put your estimates in the boxes.**

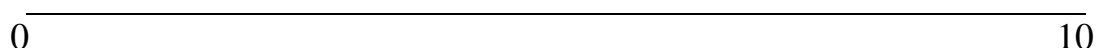


**Marking a number line**

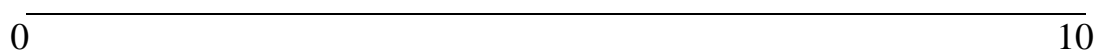
Draw an arrow to show where 4 is on the number line.



Draw an arrow to show where 7 is on the number line.



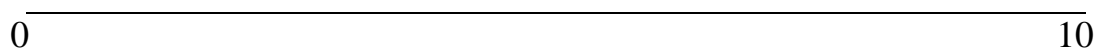
Draw an arrow to show where 2 is on the number line.



Draw an arrow to show where 9 is on the number line.

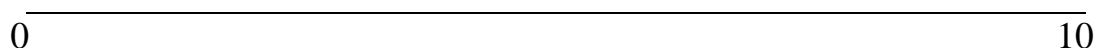


Draw an arrow to show where 6 is on the number line.

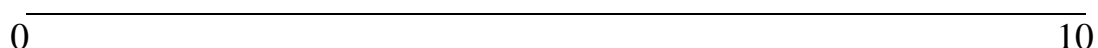


**Marking a number line**

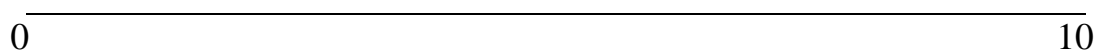
Draw an arrow to show where 5 is on the number line.



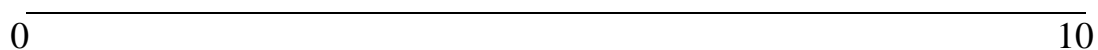
Draw an arrow to show where 1 is on the number line.



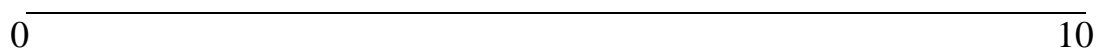
Draw an arrow to show where 8 is on the number line.



Draw an arrow to show where 3 is on the number line.

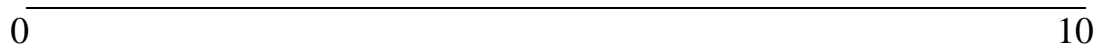


Draw an arrow to show where 7 is on the number line.

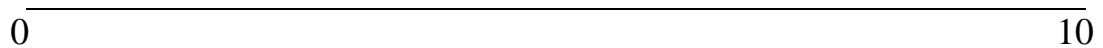


**Marking a number line**

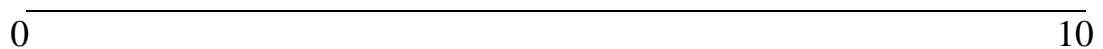
Draw arrows to show where 2 and 7 are on the number line.



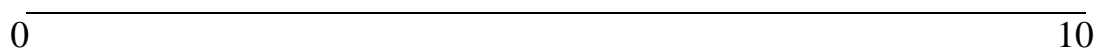
Draw arrows to show where 3 and 9 are on the number line.



Draw arrows to show where 1 and 5 are on the number line.

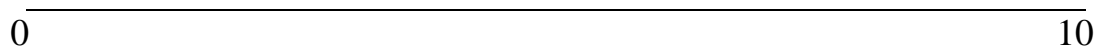


Draw arrows to show where 5 and 8 are on the number line.

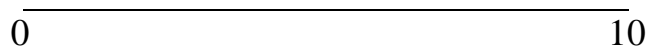


**Marking a number line**

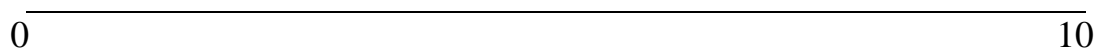
Draw arrows to show where 2 and 9 are on the number line.



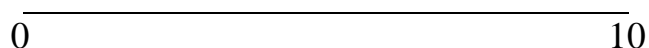
Draw arrows to show where 3 and 6 are on the number line.



Draw arrows to show where 5 and 8 are on the number line.



Draw arrows to show where 4 and 7 are on the number line.



**Answers****Page 3**

1. about 30

2. About 20

**Page 4**

1. about 45

2. About 30

**Page 5**

1. 2

2. 5

3. 9

**Page 6**

1. 8

2. 1

3. 5

4. 7

**Page 7**

1. 1 and 7

2. 0 and 4

3. 6 and 8

4. 2 and 6

**Page 8**

1. 2 and 5

2. 1 and 7

3. 3 and 8

4. 5 and 9

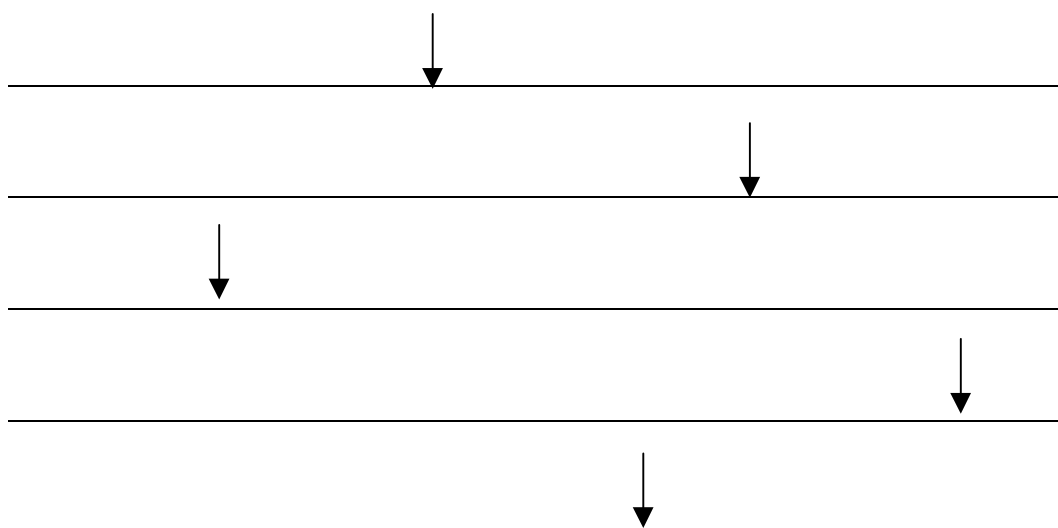
**Page 9**

1. 3 and 6

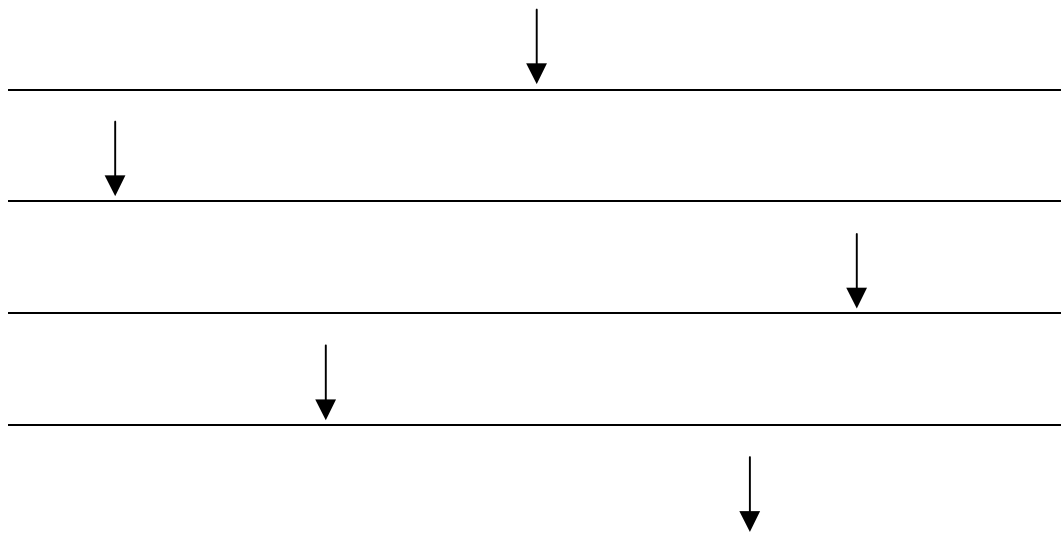
2. 2 and 10

3. 1 and 9

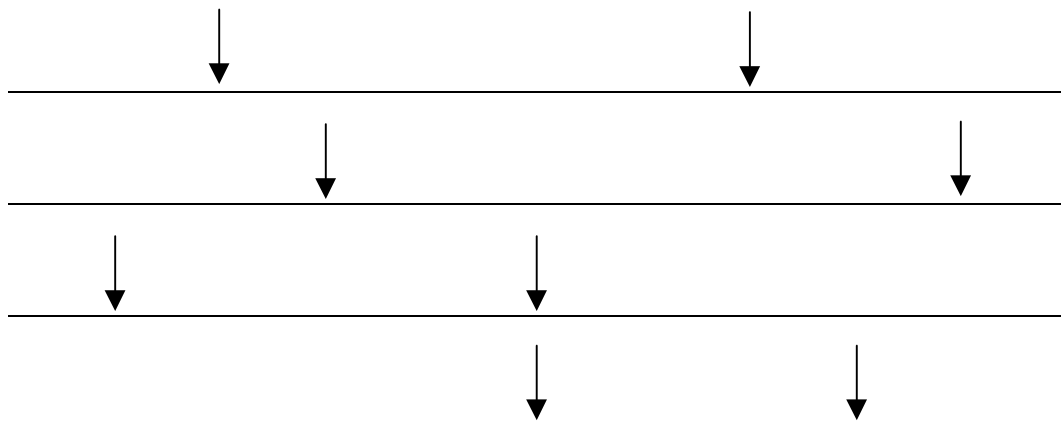
4. 4 and 7

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