

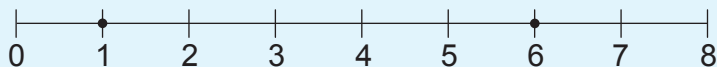
Non-Routine Questions 1

NOTES

Thinking Skill: Comparing

Comparing is a thinking skill used to identify similarities and differences among a group of things or items. In order to apply this technique, we have to be observant and careful. When comparing numbers, look carefully at each digit before deciding if one number is greater or smaller than the other.

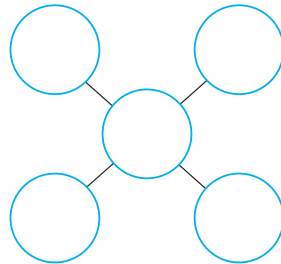
We may also use a number line for comparison when there are more than two numbers. The number line is one that shows evenly spaced marked points. The marked points on the left are smaller numbers than the marked points on the right. Place a dot on the marked point to show the position of the number. With a few points on the number line, we can easily identify which number is greater or smaller.



An example of a number line with marked points 1 and 6.
(Here it shows that 6 is greater than 1.)

Do these questions on another piece of paper.

1. Fill in the blanks with only numbers from 1 to 5 so that the sum of the three circles along each line is 10. Use each number only ONCE.



2. Six boys were sitting in a school hall. They were seated facing the stage.

- Andy sat next to Sean.
- Jonathan also sat next to Sean.
- Fred sat further away from the stage.
- Calvin sat behind Jonathan.
- Andy sat in front of Don.

Fill in each box with the correct name.

		Andy

STAGE

3. James has a ruler.
Nicholas' ruler is longer than James'.
Melody has a ruler longer than James' but shorter than Nicholas'.
Simon's ruler is shorter than James'.
Who has the longest ruler?

_____ has the longest ruler.

4. A group of boys went to a cinema. They occupied the first row of seats. Ben, one of the boys, was seated 4th from the left and 3rd from the right. How many boys went to the cinema?

_____ boys went to the cinema.

5. Fill in each circle with only numbers from 1 to 9 to make the addition sentence true. Use each number only ONCE.

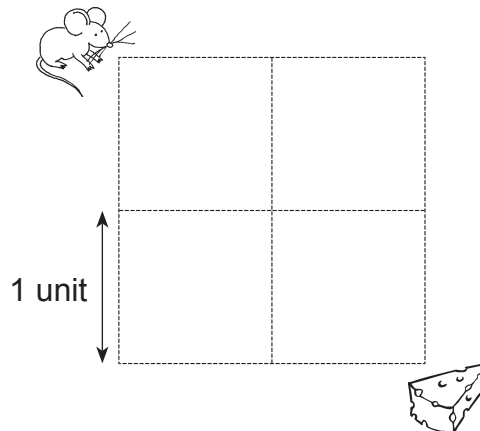
$$\bigcirc + \bigcirc + \bigcirc = 17$$

6. Guess a 2-digit number based on these hints:

- The first digit is smaller than 3.
- The first digit is an odd number.
- The second digit is an even number.
- The difference between the first digit and the second digit is 5.

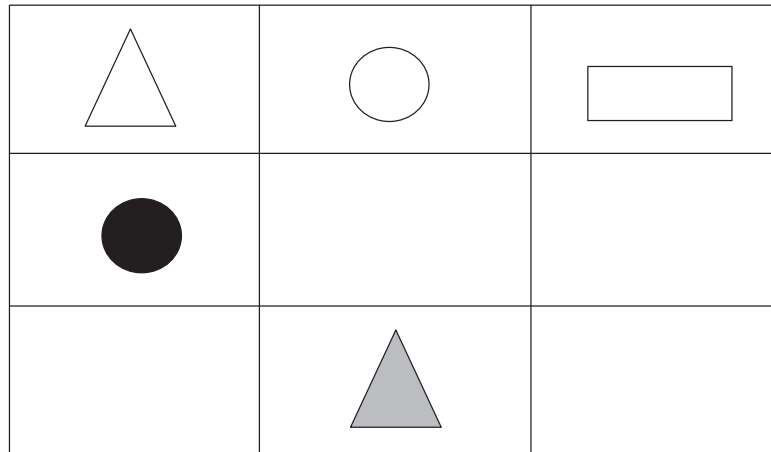
The 2-digit number is _____.

7. How many routes can the mouse take to reach the cheese?
(The mouse must travel along the dotted lines and within 4 units.)



The mouse can take _____ routes to reach the cheese.

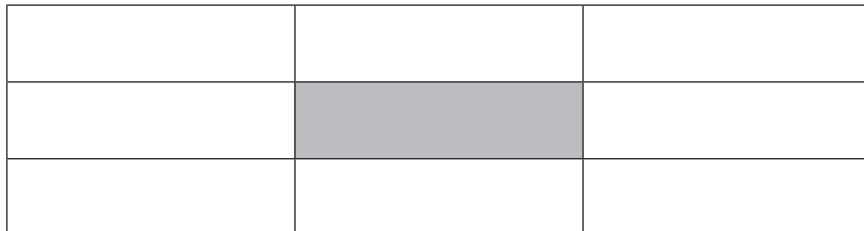
8. Study the patterns below and draw the correct shape in each box.



9. Nine students are queuing at a drink stall during recess. Joel comes along and joins the queue. There are six students between Joel and Dawn. In which position is Dawn from the drink stall?

Dawn is _____ from the drink stall.

10. Fill in each box with only numbers from 0 to 9. The numbers in the three boxes along each side should add up to 10. Use each number only ONCE. What numbers are not used here?



_____ and _____ are not used here.

11. I am a 2-digit number. My two digits and the sum of my two digits are in sequence. What number am I?

I am _____.

12. Divide the shape below into 12 equal triangles.

