

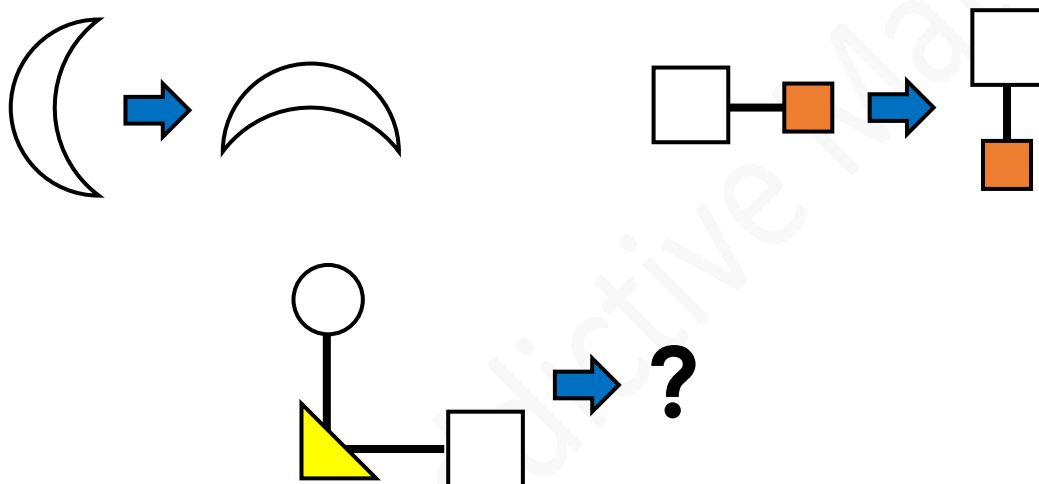
Junior Maths Mastery Challenge Sample

Paper K

Section A

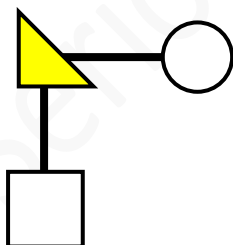
Questions 1 to 5 carry 3 marks each.

1. Study the figures below.

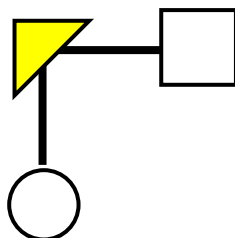


What is the missing figure?

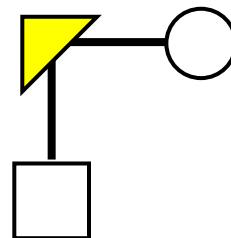
[Plane Shapes and Figures / Spatial Visualisation]



(A)



(B)



(C)



2. Study the pattern below.

B D F H J L N P ...

What letter comes next?

[Numbers to 100 / Look for Patterns]

If we number A to Z using 1 to 26, the letters in the pattern are even numbers.
2, 4, 6, 8, 10, 12, 14, ...

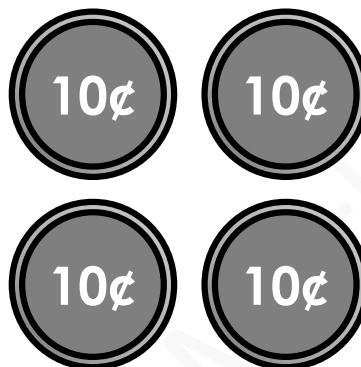
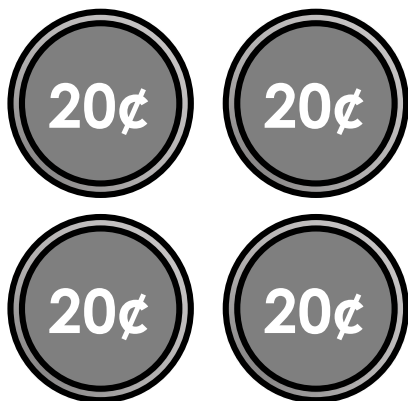
The letter Q is skipped. So, the letter that comes next is R.

(A) Q

(B) R

(C) S

3. How many ways can you make exactly 80¢ using the coins below?



[Money / Make a List]

- 1) $20¢ + 20¢ + 20¢ + 20¢ = 80¢$
2) $20¢ + 20¢ + 20¢ + 10¢ + 10¢ = 80¢$
3) $20¢ + 20¢ + 10¢ + 10¢ + 10¢ + 10¢ = 80¢$

(A) 2

(B) 3

(C) 4



4. Ken's birthday is on Friday, 25 May.
What day is 1 May?

[Calendar and Time / Arithmetic]

Since 25 May is a Friday, then 18 May, 11 May and 4 May are also Fridays.

3 May is a Thursday.

2 May is a Wednesday.

1 May is a Tuesday.

(A) Monday (B) Tuesday (C) Wednesday

5. Study the number pattern below.

1 2 3 1 2 3 1 2 3 1 ...

1st

[Addition and Subtraction Within 100 / Look for Patterns]

Add up the first 15 numbers.

What answer do you get?

$$1 + 2 + 3 = 6$$

Every 3 numbers we add, we get 6.

3, 6, 9, 12, 15

There are 5 groups of 3 numbers.

6, 12, 18, 24, 30

I get 30.

(A) 5 (B) 30 (C) 50



Section B

Questions 6 and 7 carry 4 marks each.

6. Mrs Lee wants to put 25 children into two groups.
The children line up in a straight line.
For the 1st group, she picks the 1st child, then
picks every 3rd child.
The rest are in the 2nd group.
How many children are in the 2nd group?

[Numbers to 100 / Arithmetic]

If we number the children from 1 to 25, Mrs Lee picks the 1st child and then counts by 3s.
1, 4, 7, 10, 13, 16, 19, 22, 25 are the numbers Mrs Lee picks for the 1st group.

There are 9 children in the 1st group.

$$25 - 9 = 16$$

16 children are in the 2nd group.

(A) 12

(B) 13

(C) 16

7. The picture shows 2 boys, John and Peter, and 3 girls, Lisa, Sarah and Tina, running in a park.



[Scene Vectors by Vecteezy](https://www.vecteezy.com/free-vector/scene)

John is behind Sarah.

Peter is in front of John.

Tina is not the last. [Ordinal Numbers and Positions/ Logical Reasoning]

Which statement below is **not** correct?

There is only 1 girl in front of the boys. So, Sarah is in the 1st position.

There are only 2 boys. Peter is in the 2nd position and John is in the 3rd position.

Tina is not the last, so she is in the 4th position.

Lisa is in the last position.

(A) Sarah is in the 1st position.

☒ (B) John is in the 2nd position.

(C) Lisa is in the last position.