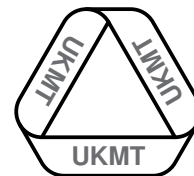


## Instructions

- Time allowed: 20 minutes.
- There are 15 questions to try to answer in the time allowed.
- Each question is worth *four* marks.
- Some questions are easier than others!
- You will have to decide your team's strategy for this competition. Do you split up so that individuals work on a few questions each, or do you work in pairs on a greater number of questions? Working all together on all the questions may well take too long. You decide!
- There is only one RESPONSE SHEET per team. Five minutes before the end of the time you will be told to finalise your answers and write them on to the RESPONSE SHEET. This RESPONSE SHEET is the only thing that will be marked.
- Each answer is one of the letters: A, B, C, D or E. Write the letter that corresponds to your answer on the RESPONSE SHEET.



1. Maja and Lana buy 16 sweets. On the way home they meet Matea and Sara. They decide to share the sweets equally.  
How many sweets does each person get?

A 3                      B 4                      C 5                      D 6                      E 7

2. Ella has a plate of alphabet spaghetti. In her spaghetti, she found twelve of the letter L, eight of the letter E, and nine of the letter A. She created the word ELLA a number of times around her plate before running out of some letters.

How many times did she create the word ELLA?

A 12                      B 10                      C 9                      D 8                      E 6

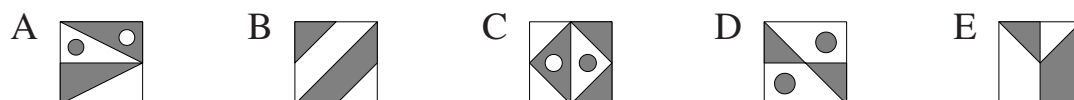
3. Four children, Clare, David, Maria and Paul, participated in a running race. Maria came in one of the first two places, but Paul did not. Neither Clare nor Paul were last in the race. Clare was placed second or third.

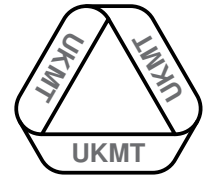
Who won the race?

A Clare                      B David                      C Maria                      D Paul  
E unknown

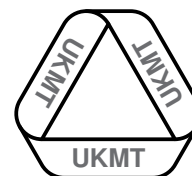
4. In four of the five pictures below, the area of the region coloured white is equal to the area of the region coloured grey.

In which picture are the white and grey areas not equal?





5. Johnny brought a biscuit to school as a snack. He exchanged it for three apples. Then he exchanged each apple for three satsumas. How many satsumas did Johnny have after his exchanges?
- A 7                      B 8                      C 9                      D 10                      E 11
6. In 2016, Lucy celebrated her 10th birthday. When she was born, her grandmother Mary was 49 years old. In what year will Mary be 70 years old?
- A 2016                      B 2027                      C 2038                      D 2049  
E None of A to D
7. At 20:16, Anna set her alarm clock to wake her up after 10 hours and 19 minutes. The next morning, she woke up 40 minutes before her alarm went off. What time did Anna wake up?
- A 05:55                      B 06:15                      C 06:35                      D 06:55                      E 07:15



8. In the Big Snail Race, the winner was the snail that covered the longest distance in three hours. The distances covered, measured by the judges, are shown in the following table.

Snail	Distance
A	2 m 3 cm 2 mm
B	260 cm 25 mm
C	2623 mm
D	2.362 m
E	2.6 m 63 mm

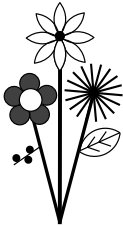

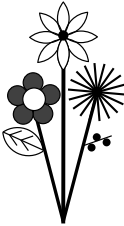


Which snail was crowned the winner?

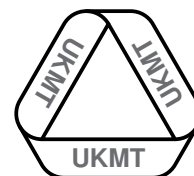
- A Snail A      B Snail B      C Snail C      D Snail D  
E Snail E

9. Mr Brown has painted some flowers on the inside of his shop window, as shown.

What do the flowers look like from outside the shop?



- A 
- B 
- C 
- D 
- E 



10. Symbols are placed one at a time in an empty cell in the diagram. Each symbol appears once and only once in every row and once and only once in every column.

Which symbol will be placed in the cell shaded grey?

★			○
+	▲		
	○		
	★	+	

- A       B       C       D       E 

11. Lots of guests came to Ben's birthday party. More than half of them were boys. The name of more than one-third of the boys was Jack. Altogether, there were three Jack's at the party.

What is the largest possible number of guests that could have been at Ben's birthday party?

- A 12      B 13      C 14      D 15      E 16

12. What is the value of

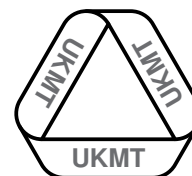
$$2 \times 3 + 2 \times 7 + 2 \times 15 + 2 \times 25 - 2 \times 40?$$

- A -10      B 0      C 20      D 180  
E 871 920

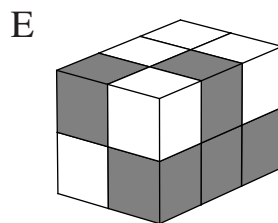
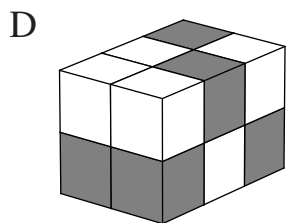
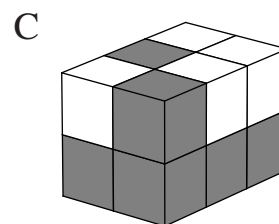
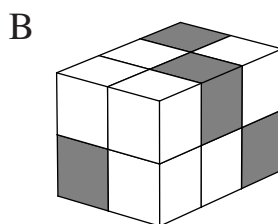
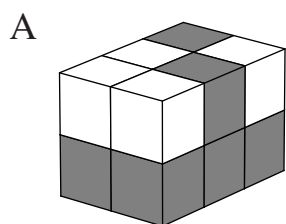
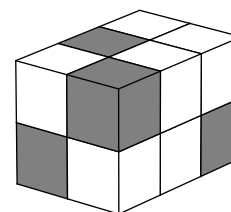
13. A secret staircase leads down to a cave full of jewels. A diamond is on every ninth stair, a ruby on every eighteenth stair, and a sapphire on every sixth stair. Altogether there are four diamonds, two rubies, and six sapphires.

How many stairs lead down to the cave?

- A 72      B 54      C 48      D 36      E 18



14. The picture shows a view of a cuboid. It is built from six grey and six white cubes.  
What does the cuboid look like from the other side?



15. Pippa has two triangles, one obtuse-angled and one acute-angled. Four of the angles in the triangles are  $130^\circ$ ,  $80^\circ$ ,  $55^\circ$ , and  $10^\circ$ .  
What is the smallest angle of Pippa's acute-angled triangle?

- A  $15^\circ$       B  $25^\circ$       C  $30^\circ$       D  $40^\circ$       E  $45^\circ$

TEAM NUMBER

SCHOOL NAME

1	6	11
(0) (4)	(0) (4)	(0) (4)
2	7	12
(0) (4)	(0) (4)	(0) (4)
3	8	13
(0) (4)	(0) (4)	(0) (4)
4	9	14
(0) (4)	(0) (4)	(0) (4)
5	10	15
(0) (4)	(0) (4)	(0) (4)

Award 4 marks for a correct answer.  
 Circle the mark awarded for each question and cross out the other.

FINAL SCORE /60