

# Non-Verbal Reasoning 2

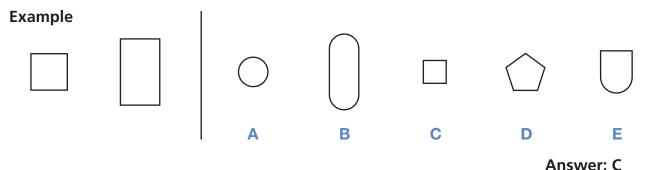
### Read the following with your child:

- 1. This is a multiple-choice paper in which you have to mark your answer to each question on the separate answer sheet. You should mark only one answer for each question.
- 2. Draw a firm line clearly through the rectangle next to your answer like this —. If you make a mistake, rub it out as completely as you can and put in your new answer.
- 3. There are four sections in this paper. Each section starts with an explanation of what to do followed by a worked example with the answer already marked on the answer sheet. Each section also contains some practice questions. Solutions to the example and practice questions are provided.
- 4. Be sure to keep your place in the correct section on the answer sheet. Mark your answer in the box that has the same number as the question in the booklet.
- You may find some of the questions difficult. If you cannot do a question, do not
  waste time on it but go on to the next. If you are not sure of an answer, choose the
  one you think is best.
- 6. Work as quickly and as carefully as you can.

# Familiarisation

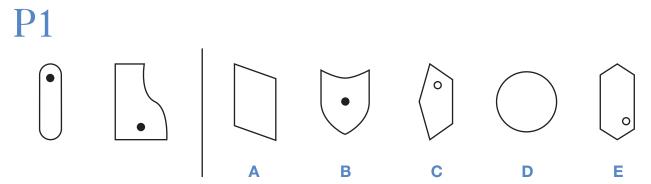


On the left of the example below there are two figures that are alike. On the right there are five more figures: one of these is **most like** the two figures on the left and its letter has been marked on your answer sheet.

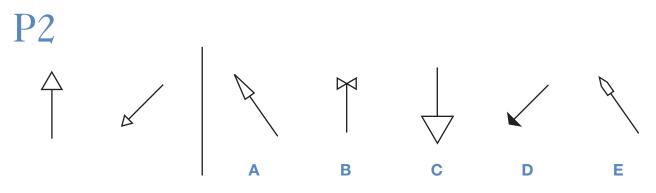


The two shapes on the left are alike in having four sides. They are not identical (the dimensions of the sides vary) but what they share in common is having four sides.

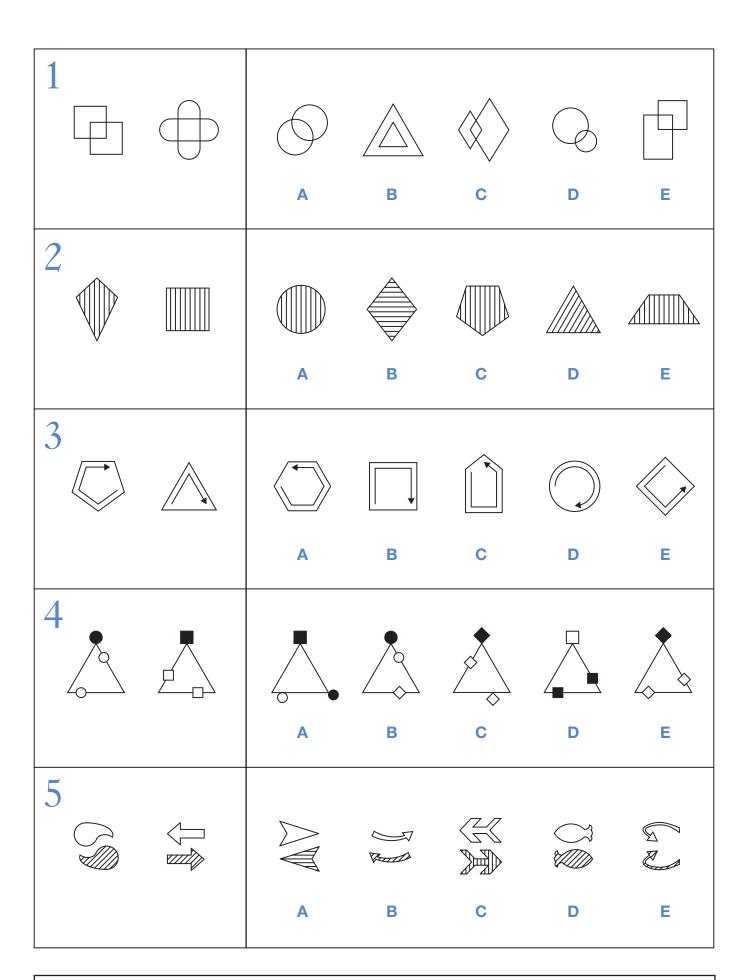
Now do the two practice questions below.

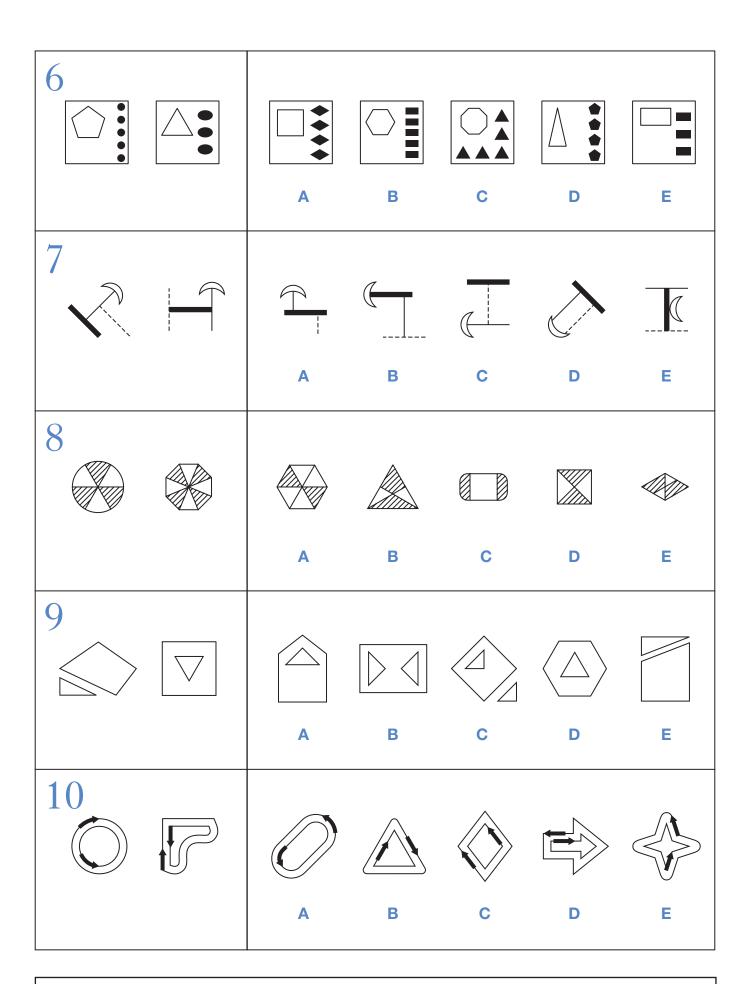


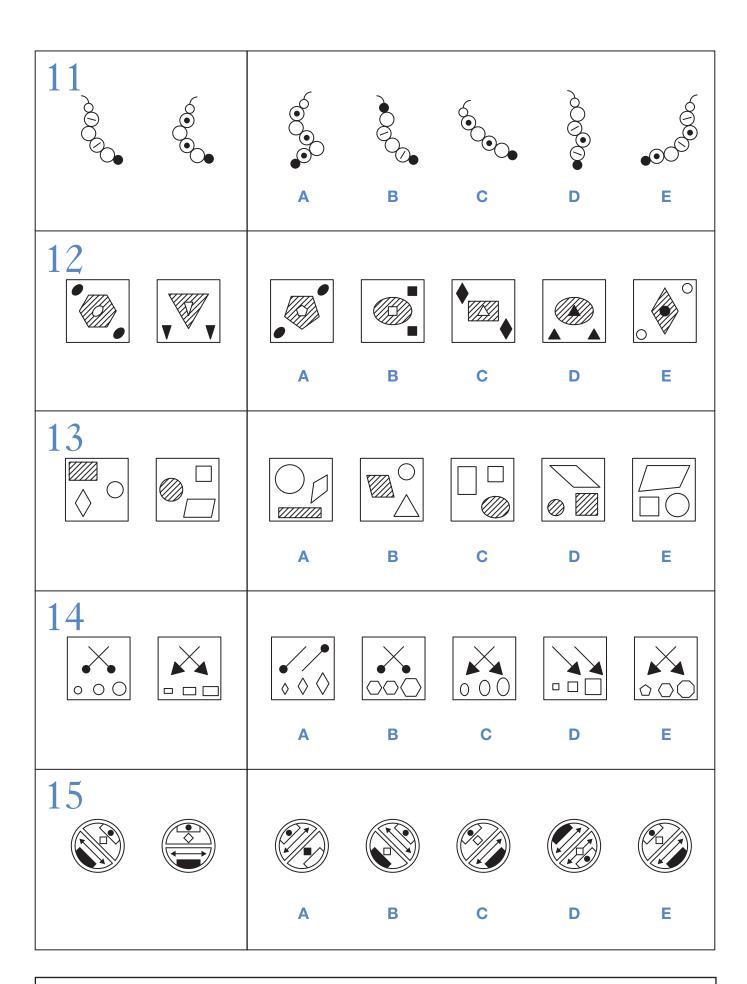
The two figures on the left both contain a small black circle. Only one of the five figures on the right, option **B**, also contains a small black circle, so this is the correct answer.

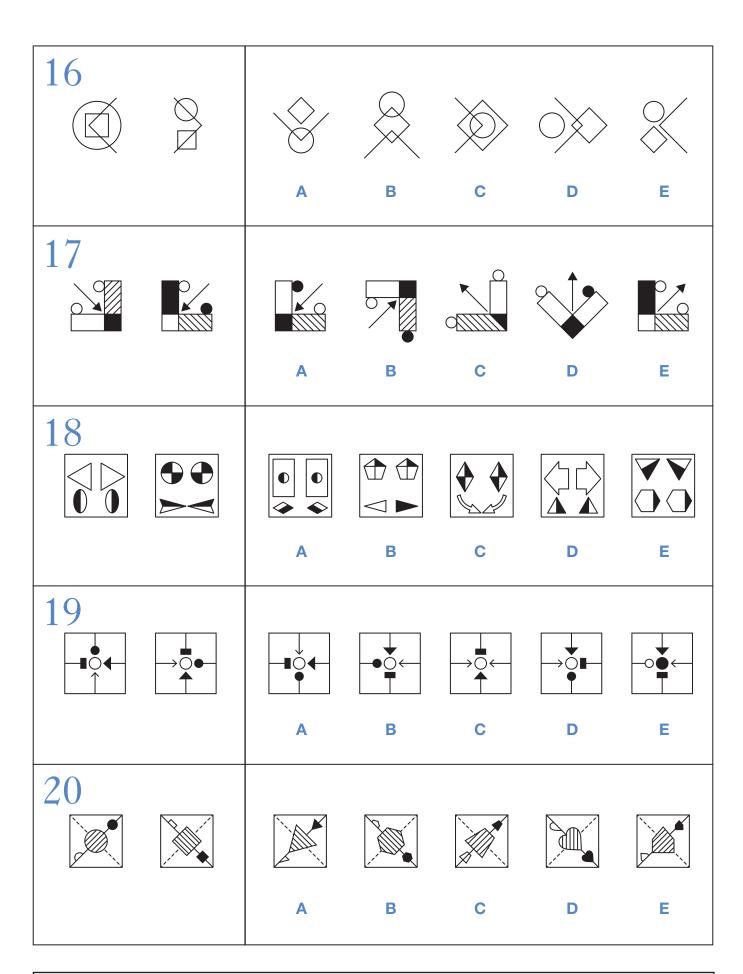


The two figures on the left have an arrow with an arrowhead which is an unshaded equilateral triangle (a triangle in which all three sides are equal). Only answer option **C** has an unshaded equilateral triangle as the arrowhead. The size of the arrowhead is irrelevant and so is the direction in which the arrow is pointing.



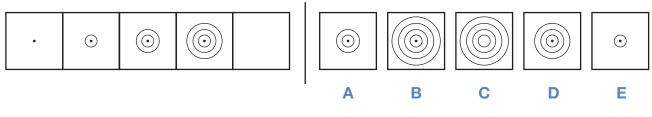






To the left in the example below there are five squares arranged in order. One of these squares has been left empty. One of the five squares on the right should **take the place** of the empty square and its letter has been marked on your answer sheet.

### **Example**

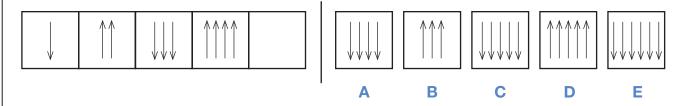


**Answer: B** 

As you move through the series, the dot acquires an extra ring around it, increasing the overall size of the circle each time. The central dot is present in each cell.

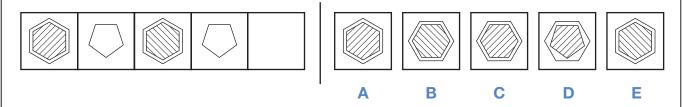
Now do the two practice questions below.

### **P1**



This series has two rules: firstly, an arrow is added each time and, secondly, the direction of the arrows alternates, pointing downwards then upwards etc. Therefore, the missing square should have five arrows pointing downwards, as in answer option **C**.

# P2



In this series, the image changes across every other square so the pattern for 1, 3 and 5 is independent from squares 2 and 4. We can see that the pattern for 2 and 4 remains the same: the five-sided shape doesn't change. The pattern for 1, 3 and 5 shows that the six-sided shape is always positioned the same way but the direction of the diagonal lines alternates. In square 5 they will be slanting right, as in answer option **A**.















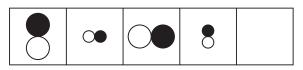
A

B

D

Ε

### 22













Α

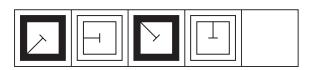
В

C

D

Ε

### 23













Δ

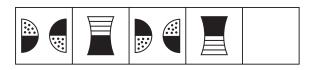
В

C

D

Ε

### 24







В



C





D

Е

### 25













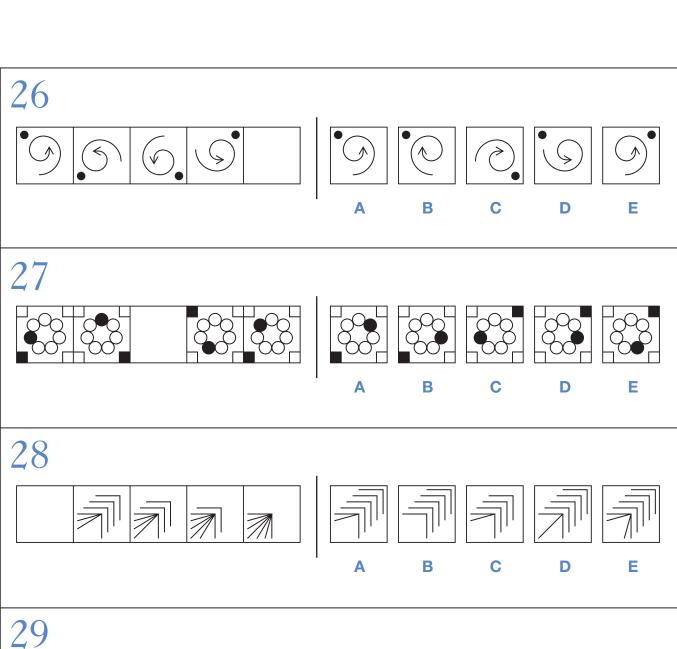
Α

В

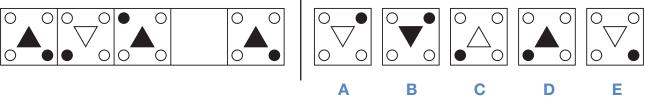
C

D

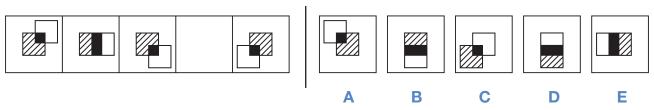
Ε

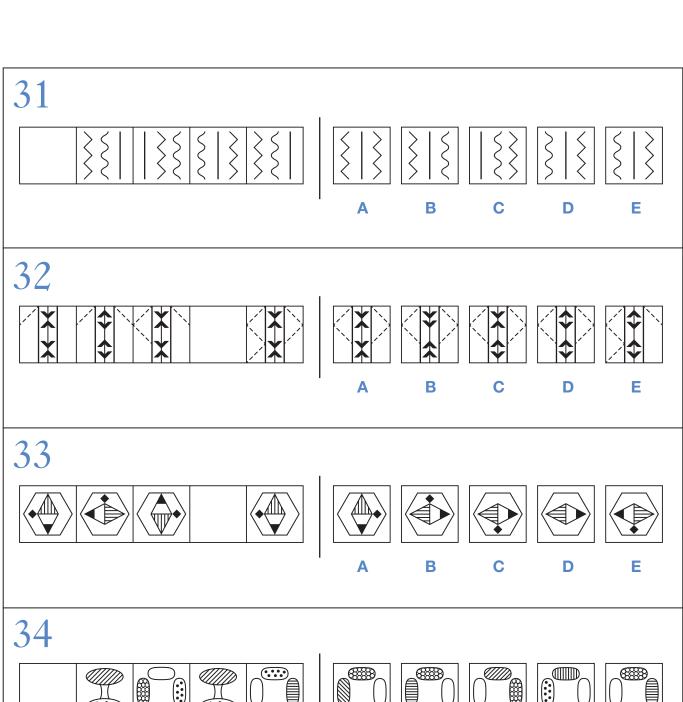


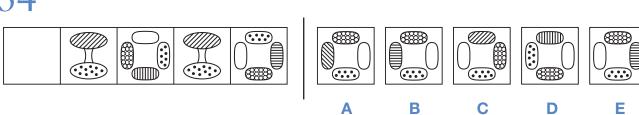


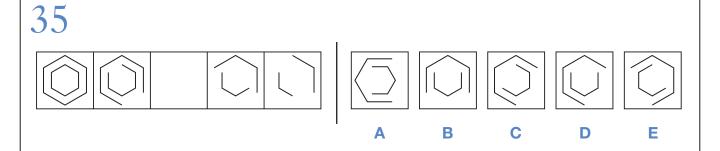


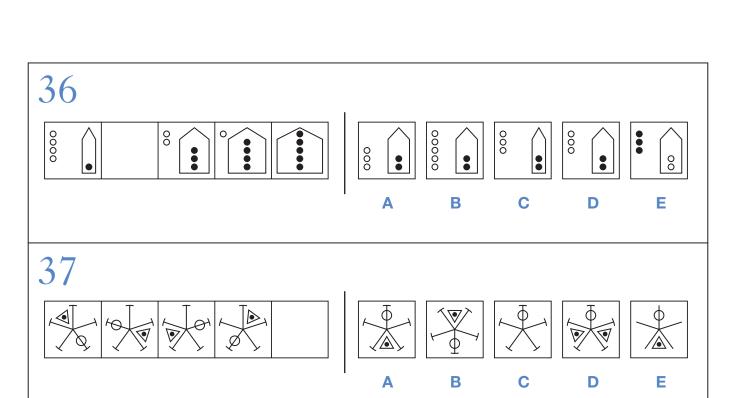
30

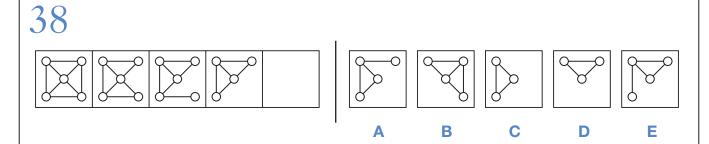


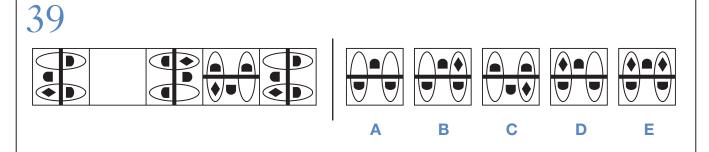


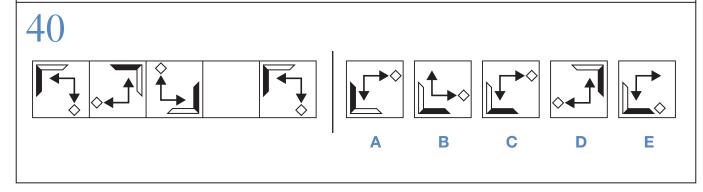






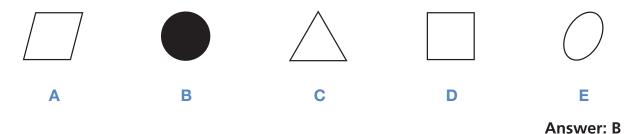






In the example below there are five figures. One of these figures is **most unlike** the other four and its letter has been marked on your answer sheet.

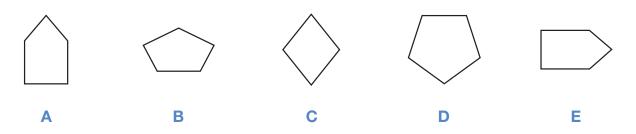
### **Example**



In this example, all the figures are white except for the black circle. Therefore **B** is the correct answer as it is the only one of the five figures that is unlike the others.

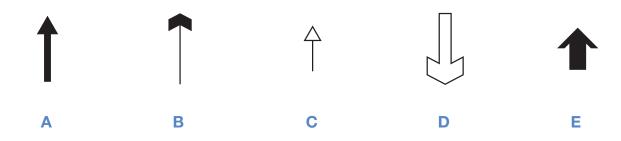
Now do the two practice questions below.

### P1

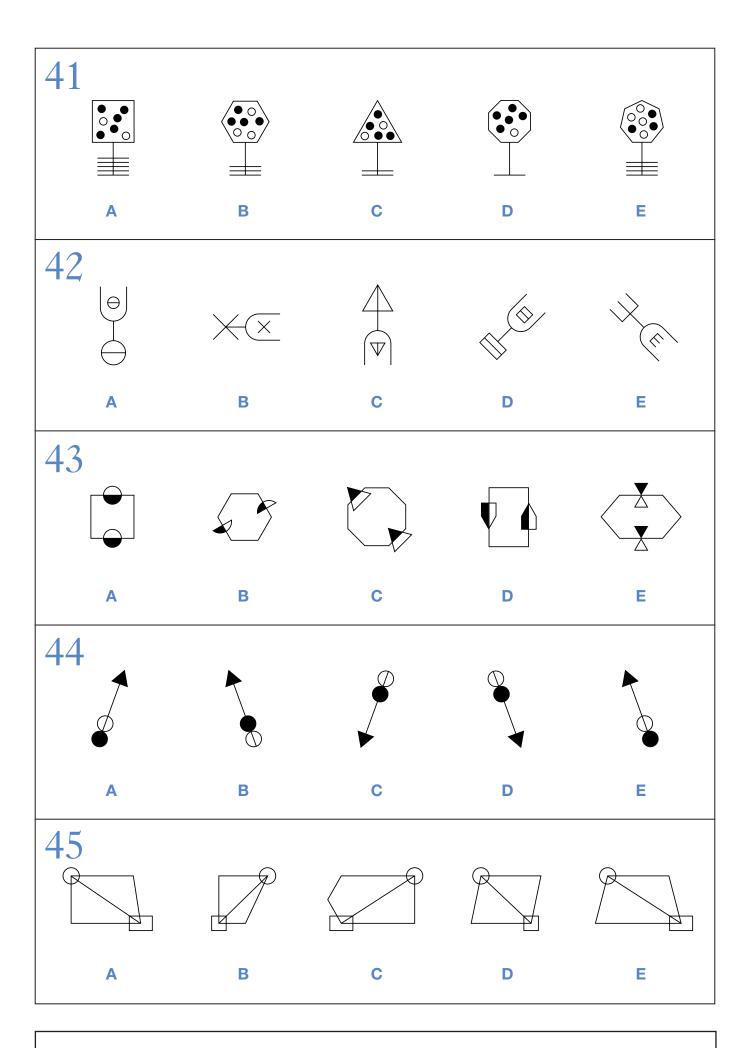


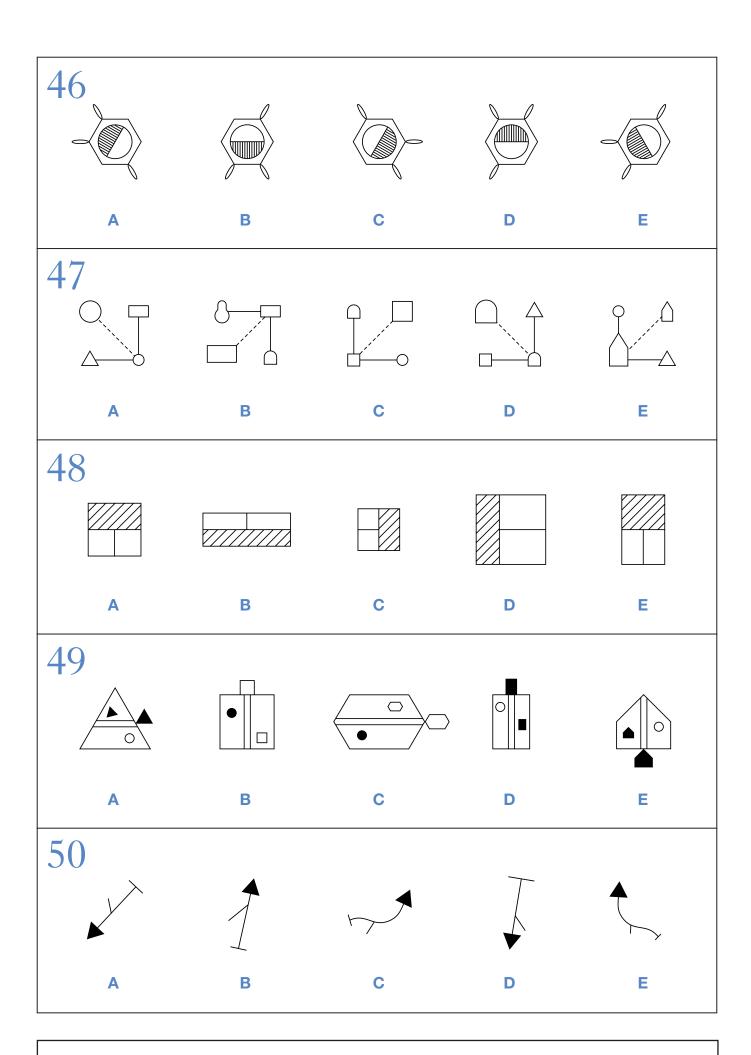
In this question, all the figures have five sides except for option  ${\bf C}$  which has four sides.

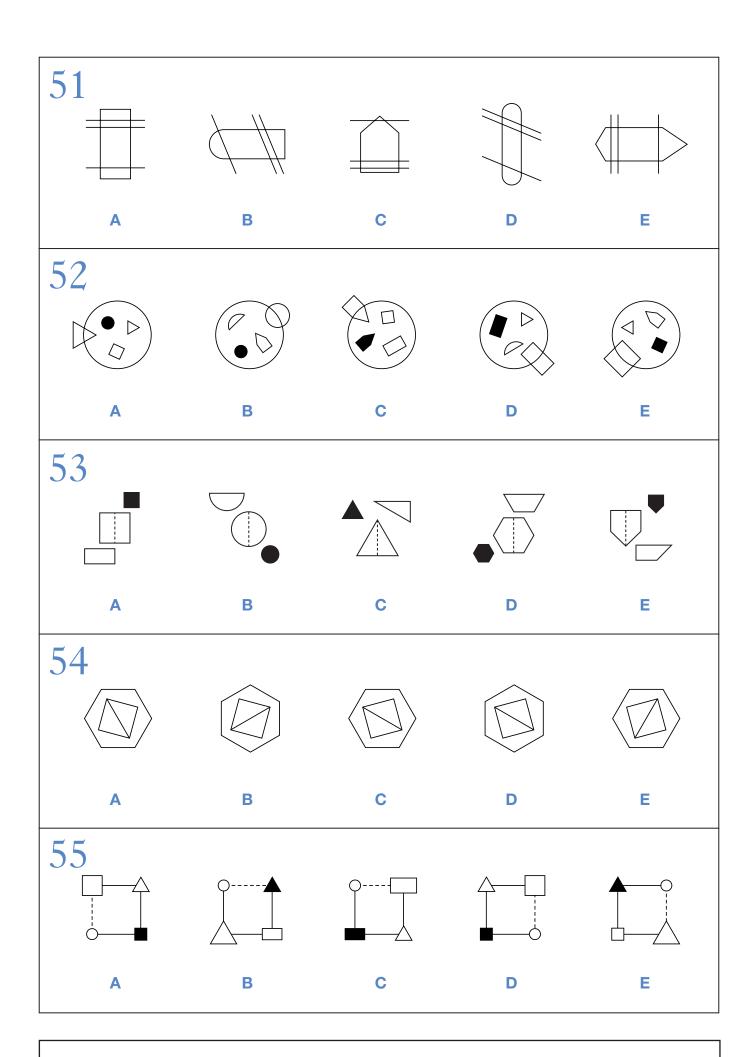
# P2

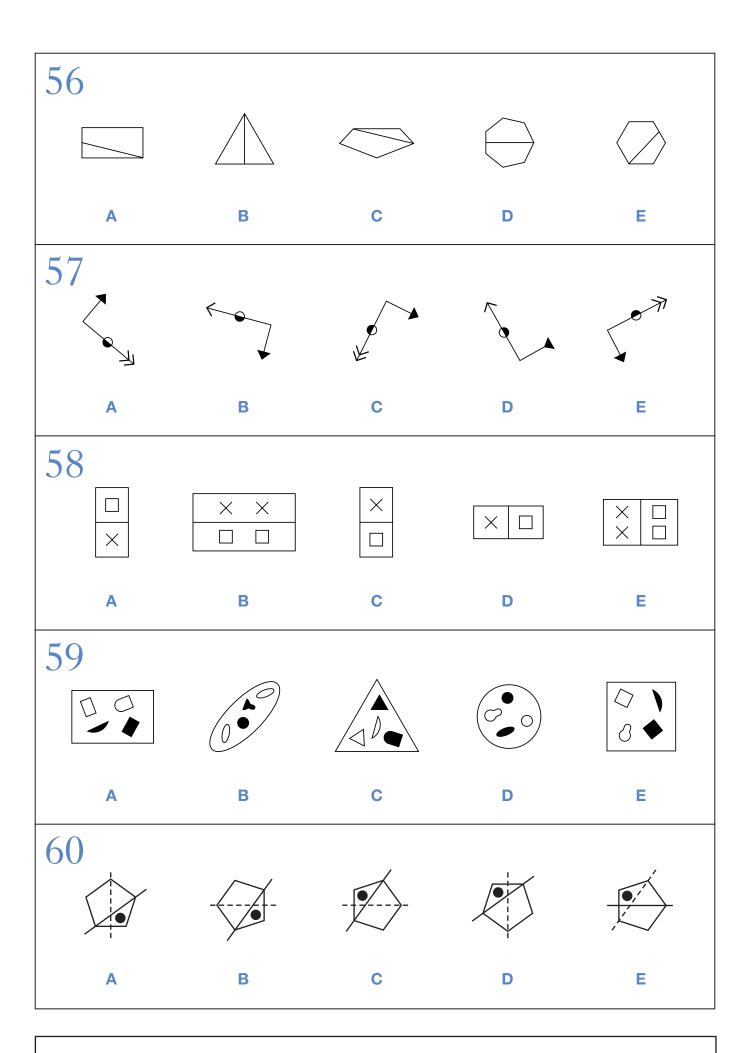


In this question, all the arrows (irrespective of their line style or fill) are pointing upwards except for option **D** which is pointing downwards.









To answer these questions you have to work out a code. On the left of the example below are some shapes and the codes that go with them. You must decide how the code letters go with the shapes. Then find the correct code for the **test shape** from the set of five codes on the right. Its letter has been marked on your answer sheet.

### **Example**

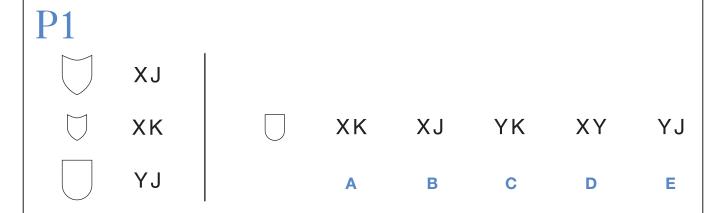


Answer: A

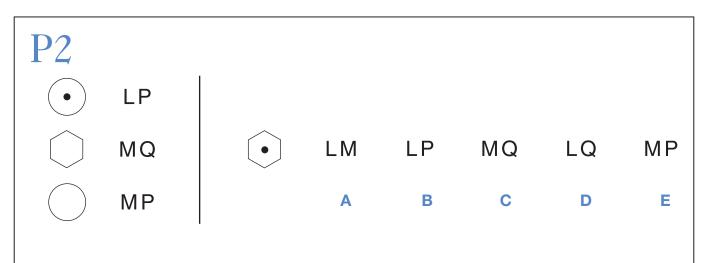
Decide what the code letters mean. The **first letter** is the same for both shaded shapes, so S must be the code for shading and T the code for white. The **second letter** is different for each shape, so X, Y and Z must be the codes for arrow, square and diamond. Therefore the test shape must have an S code for shading and a Z code for diamond. So the answer is SZ and **A** has been marked on the answer sheet.

Now do the two practice questions below.

Remember there is a new code for each question.



In this question, the answer is **C** because the test shape must have a Y code for being a rounded shield and a K code for being a small shield.



In this question, the answer is **D** because the test shape must have an L code for the black dot at the centre of the shape and a Q code for being a hexagon (a six-sided figure).

61		XRK A			YQJ D	
62  KRV  LSW  MTX  NRW		LRX A			NSW D	
FKP GLQ HLR GMP		HKR A	GKQ B	FMP C		GLR E
64 © JPV  COC KQW  EPV  MRW	<b>○</b> •○	MRV A	JQW B	MQV C	KPW D	JRV E
65 FJP  GKQ  GLR  FMQ		FJR A	GKP B	FMR C	GJP D	GMP E

66		LRX LQY					MQW	
67		JPS KPT JQS LRT			KQS B		KRS D	JRT E
68		MRV NSW MTX DRW	⊕.	MTW A		NTV C	OSW	MSV E
69	△ ← <b>ř</b>	JPV KQW LPX MQV		JQX A	LPV B	KPW C	JQW D	LQV E
70		JQX KRY LSZ KTX		KQY A	KSZ B	LQY C	JRY D	LTY E

						1
71 KQX KQX LRY KPZ		LPX A	JRZ B	JQZ C	LRW D	KQW E
FKQ FLR HMS GKR		GMR A	FLQ B	GKS C	HKQ D	FKR E
73 MW KNX JNY LMX	<b>1</b>	LNX A	JMX B	LMW	KNY	LNW E
74 PIP GKQ  SKQ  FLR  HJQ		HLQ A	FJR B	НКР С	GJQ D	GKP E
75 KQU  LRV  MSW  NSU		LSU A	KRW B		LRW D	MQV E

76 S JPT KQU LRV MQT		JRU A	LRU B	JRV C	KPT D	JQU E
77⊕ □ SLX		TLZ A	VMZ B	VLY C	TNX	SNY E
78 ♥▽▽ XKP ▼▼▼ YLQ ▼▼▼ ZKQ ▼▼▼ YMR		YKQ A	ZLP B	XLR C	ZMP D	XMQ E
79 SO KQX  LRY  MRZ  KSY	000	KRX A	LSY B	KQZ C	MSZ	LQY E
80 000 FKP 000 GLQ 000 HMR 000 FLS	0000	FMR A	GKS B	GMP C	HKQ D	HLS E

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