Non-Verbal Reasoning

Complete the pattern.
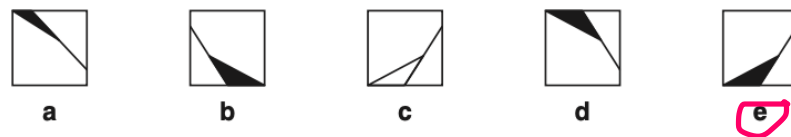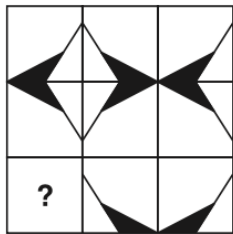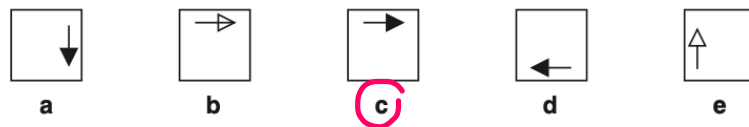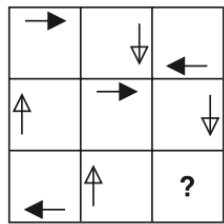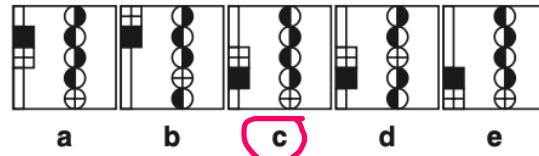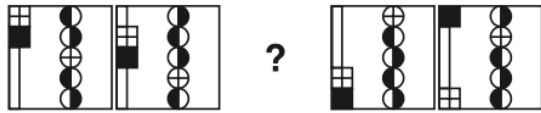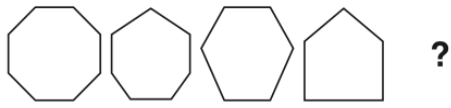
Which figure would fit most like the ones in the oval?
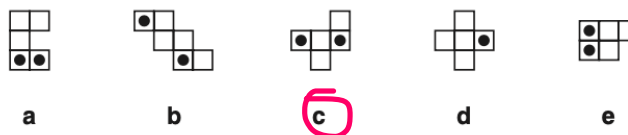
Complete the pair.
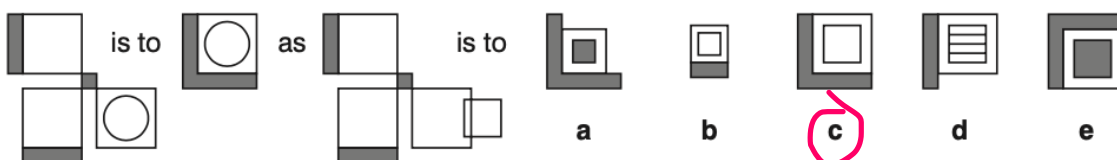
Horizontal Codes

DZ	AY	BX	BZ	DX
a	b	c	d	e

YI	WH	WI	XI	YG
a	b	c	d	e

Verbal Reasoning

Word connections

1. Baby is to (cot, play, young) as bird is to (feather, nest, fly)

2. Spoon is to (metal, mix, drawer) as knife is to (wooden, cut, handle)

3. Pen is to (write, pot, ink) as pencil is to (lead, sharpen, erase)
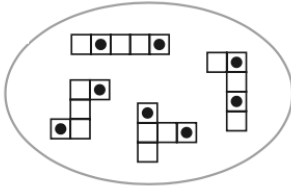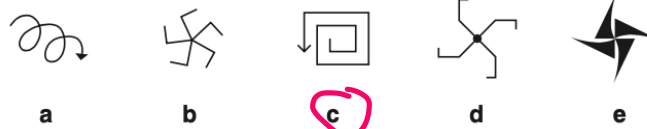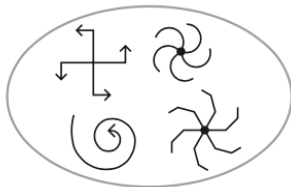
4. Choir is to (sing, church, concert) as troupe is to (paint, dance, run)

5. Kitten is to (ball, cat, whiskers) as puppy is to (walk, bark, dog)

6. Football is to (kit, goal, stadium) as tennis is to (court, rally, match)

7. Money is to (purse, spend, cost) as clothes are to (wardrobe, outfit, washing)

8. Precise is to (exact, point, vague) as generous is to (misery, giving, gift)

9. Hammer is to (saw, nail, screw) as gavel is to (court, judge, block)

10. Film is to (buy, rent, watch) as book is to (pages, read, words)

Maths

I think of a number.

I multiply it by 3 and then subtract 5.

I get an answer of 16.

What was the number I first thought of ?

$16 + 5 = 21 \div 3 = 7$

Which number replaces the * in this calculation:

$$\frac{6}{10}^{\times 2}_{5} \frac{*}{5}_{\times 2} + \frac{3}{10} = \frac{9}{10}$$

Jimbob buys 9 pairs of laces for his hiking boots.

It costs £19.26 altogether. £6.42

How much would 3 pairs of laces cost ?

$$\begin{array}{r} 0\,2\,.\,1\,4 \\ 9\overline{)1\,9\,.\,2\,6} \end{array}$$

$$\begin{array}{r} 2\,.\,1\,4 \\ \times \quad\quad 3 \\ \hline 6\,.\,4\,2 \end{array}$$

If $15 \times 20 = 300$, give the answers to these, without working them out in full:

$15 \times 21 = $ 315
(1 more lot of 15)

$15 \times 19 = $ 285
(1 less lot of 15)

$300 \div 15 = $ 20
(inverse)

• This table shows the temperature that it went down to overnight in 5 parts of the UK.

Location	Temperature
London	+3
Manchester	+2
Brighton	+4
Cardiff	-2
Edinburgh	-6

+6 +4
-6   0   4
$= 10°C$

What is the temperature difference between the hottest and coldest places?