

### Non-Verbal Reasoning – Layering

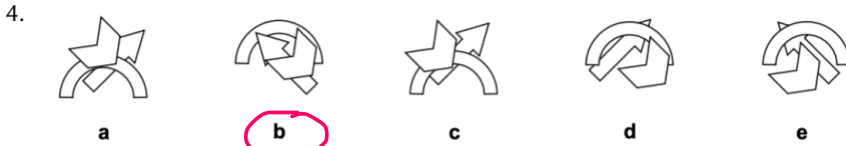
#### Odd One Out

Look at the five figures below. Find which figure is most unlike the others.

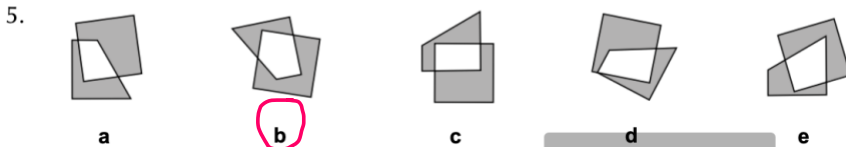
Example:



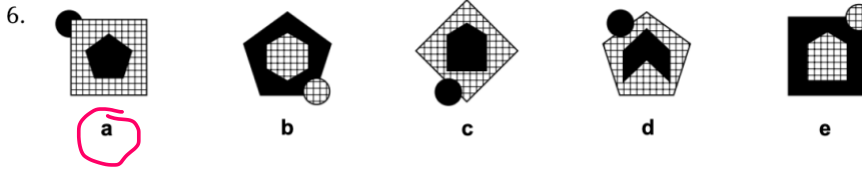
In all the other figures, the black shape is at the front.



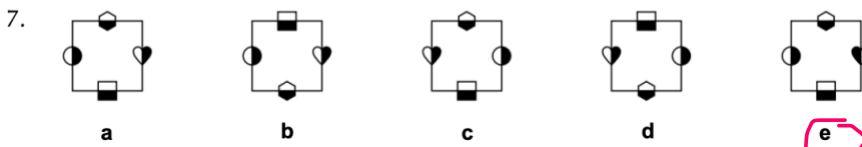
Rainbow at the back



Overlapped shape has 5 sides



Circle is at the back

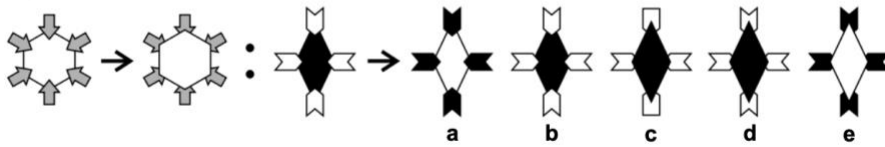


Inside over lapped shape 3 black 1 white

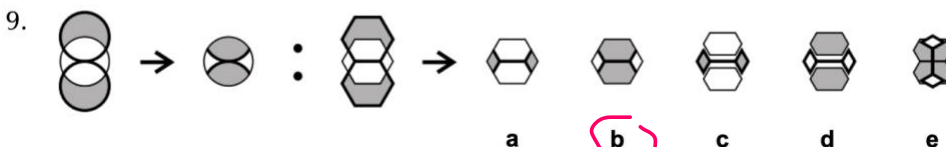
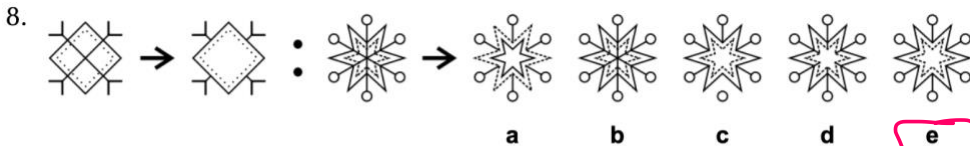
#### Complete the Pair

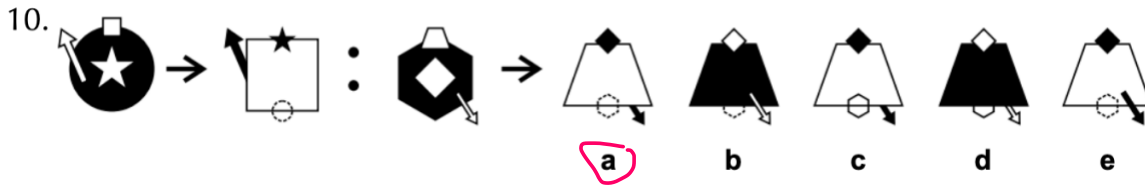
The first shape below is changed in some way to become the second. Choose the shape on the right that relates to the third shape in the same way that the second relates to the first.

Example:



The arrows move to the back of the figure and the central shape moves to the front.





**Verbal Reasoning – Word Connections**

**Key Question**

Choose two words, one from each set of brackets, that complete the sentence in the most sensible way. Underline both words.

Look at this example:

**Dog** is to (run eat bark) as **duck** is to (bread water quack).

**Hint:** Being able to recognise nouns, verbs and adjectives will help you to answer these questions. The answer will usually be two words of the same type.

1. **Carpet** is to (hard stain floor) as **curtain** is to (window glass hide).
  2. **Right** is to (left mix correct) as **wrong** is to (incorrect bad wise).
  3. **Ball** is to (dance tennis darts) as **shuttlecock** is to (hockey badminton tiddlywinks).
  4. **Water** is to (drink café mug) as **food** is to (market eat full).
  5. **Shout** is to (loud sing angry) as **whisper** is to (bored quiet old).
  6. **Yawn** is to (happy angry tired) as **cry** is to (sad bored hungry).
- 
7. **Hard** is to (difficult soft solid) as **easy** is to (fun straightforward awful).
  8. **Page** is to (bride pin book) as **website** is to (internet market friend).
  9. **Fur** is to (soft warm cat) as **wool** is to (sheep pig cold).
  10. **Present** is to (birthday here forget) as **absent** is to (school Easter away).
  11. **Eight** is to (dog fish spider) as **four** is to (pig chicken wish).
  12. **City** is to (shop walk big) as **village** is to (small flat pretty).

**Maths – Multiplication**

A football team bring 8 coaches of supporters to a cup match. Each coach holds 53 passengers. How many supporters are brought to the cup match by the 8 coaches?

$$53 \times 8 = 428$$

At a wedding there are 18 tables of guests. 14 tables seat 8 guests. 4 tables seat 12 guests. Work out the total number of guests.

$$14 \times 8 = 112$$

$$4 \times 12 = 48$$

$$112 + 48 = 160$$

Alfie, Betty and Carmine are tortoises. Alfie is three times older than Betty. Betty is twice the age of Carmine. Carmine is 17 years old. Work out how old Alfie is.

$$B = 17 \times 2 = 34$$

$$34 \times 3 = 102$$

$$\begin{array}{r} 34 \\ \times 3 \\ \hline \end{array}$$

800 people went to a charity ice hockey match between Coventry and Guildford. Adult tickets are £8 each. Child tickets are £5 each. Out of the 800 people at the match, 218 are children. Work out how much money is raised for charity.

$$\begin{array}{r} 800 \\ - 218 \\ \hline 582 \end{array}$$

$$\begin{array}{r} 218 \\ \times 5 \\ \hline 1090 \\ \phantom{1090} 4 \end{array}$$

$$\begin{array}{r} 582 \\ \times 8 \\ \hline 4656 \\ \phantom{4656} 6 \end{array}$$

$$\begin{array}{r} 102 \\ + \\ 4656 \\ + 1090 \\ \hline \pounds 5746 \end{array}$$

James wants to bake 76 cupcakes. He places three mini chocolate eggs on the top of each cupcake. James has 5 bags of mini chocolate eggs. Each bag contains 45 mini chocolate eggs. Does James have enough mini chocolate eggs?

$$\begin{array}{r} 45 \\ \times 5 \\ \hline 225 \end{array}$$

$$\begin{array}{r} 76 \\ \times 3 \\ \hline 228 \end{array}$$

NO

A mug weighs 293g. A shelf can safely support up to 2kg. Work out if 7 mugs can be placed on the shelf?

$$\begin{array}{r} 293 \\ \times 7 \\ \hline 2051 \end{array} \rightarrow \text{NO}$$

$$2000g$$

Timothy saves £34 a week. Calculate how much money Timothy will save in one year.

$$\begin{array}{r} 34 \\ \times 52 \\ \hline 68 \\ + 1700 \\ \hline 1768 \end{array}$$

Mr Jones owns an electronics shop. He orders 16 laptops at £312 each. Mr Jones sells the 16 laptops at £500 each. Work out the profit.

$$\begin{array}{r} 312 \\ \times 6 \\ \hline 1872 \end{array}$$

$$\begin{array}{r} 312 \times 10 = 3120 \\ 312 \times 6 = 1872 \\ \hline 4992 \end{array}$$

$$\begin{array}{r} 8000 \\ - 4992 \\ \hline 3008 \end{array}$$

$$16 \times 500 = 8000$$

A theatre has 46 rows. There are 42 seats in each row. During a show at the theatre, there are 50 empty seats. Work out how many people are watching the show.

$$\begin{array}{r} 46 \times 40 = 1840 \\ 46 \times 2 = 92 \\ \hline 1932 \end{array}$$

A primary school are carpeting a classroom. The room is 9 metres by 7 metres. The carpet is £29 per square metre. Calculate the cost of the carpet.

$$63 \times 20 = 1260$$

$$\begin{array}{r} 63 \times 9 = 567 \\ \hline 1827 \end{array}$$

$$9 \times 7 = 63$$

$$63 \times 29$$

Read this passage carefully and answer the questions that follow.

## The Dinosaur Dipper

Sanjay and his dad had been waiting in the queue for the roller coaster for a long time. Bored, Sanjay tugged Dad's sleeve, "Are we nearly at the front?"

When the family had arrived at the theme park that morning they'd bought their tickets from a friendly lady who was dressed as a cavewoman. When they walked through the gates of the theme park, the Dinosaur Dipper roller coaster was the first thing Sanjay had seen. It towered over the other rides, its shiny green track looping high above the ground. Brightly painted carriages zoomed along the tracks, and the passengers' excited cries echoed through the air.

"Can we go on that ride, Dad?" Sanjay had begged. "Please?"  
 "Be patient," Dad had replied. "We're going to take Maya on some smaller rides first." Maya was Sanjay's baby sister. She was only three, but she was running around and shouting excitedly because she was happy to be out of her pram.

Finally, Dad and Sanjay had left Maya and Mum at the café and made their way towards the Dinosaur Dipper, where they had queued for what seemed like hours.

All of a sudden, the queue in front of them surged forwards, and Sanjay saw an official-looking man helping people onto the ride. Sanjay watched a group of teenagers climb excitedly into the colourful carriages. They chatted and giggled as they strapped the safety belts on tightly. With a loud clang and a clatter, the carriages shot forward.

Sanjay felt butterflies in his stomach. Suddenly the ride seemed very high and very fast. He wasn't sure that it looked fun after all. Before Sanjay could say anything, Dad turned around and took his hand.

"Come on, it's our turn!" he said.

The crowd hurried forward and Sanjay was swept through the gate. Dad led him towards a carriage with a huge grin on his face.

"This is going to be fun!"

- What did Sanjay see when he first entered the theme park?
  - Lots of people
  - The gift shop
  - Some smaller rides
  - The Dinosaur Dipper
  - The café
- Why did Sanjay not go on the Dinosaur Dipper straight away?
  - He was frightened.
  - He didn't think it looked fun.
  - Maya wanted to go on it later.
  - The queue was too long.
  - They took Maya on some other rides first.
- Who did Sanjay see while he was waiting in the queue for the roller coaster?
  - A man selling ice creams
  - One of his friends from school
  - A man checking tickets
  - People taking photographs
  - Someone helping people onto the ride
- Which of the following statements is not true?
  - Sanjay and his dad queued for the ride for a long time.
  - The teenagers ahead of Sanjay put on their safety belts.
  - The teenagers ahead of Sanjay were nervous about the ride.
  - The ride made a loud sound as it set off.
  - The carriages moved very quickly when the ride set off.
- Which of these two words describe the Dinosaur Dipper?
  - Bright and colourful
  - Boring and empty
  - Tall and slow
  - Small and loopy
  - Fast and straight

6. What does Sanjay think about the roller coaster when he reaches the end of the queue?
- A He thinks it might break down.
  - B He thinks it will be really boring.
  - C** He thinks it won't be very enjoyable.
  - D He thinks it will be exciting.
  - E He thinks it looks like a ride for small children.
7. Where is Maya while Sanjay and his dad are waiting to get on the Dinosaur Dipper?
- A On a smaller ride
  - B** With Mum in the café
  - C On the roller coaster already
  - D In the queue with them
  - E In the ticket office with Mum

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Answer these questions about the way words and phrases are used in the passage.

8. Which of these words is closest in meaning to "tugged" (line 2)?
- A Touched
  - B** Pulled
  - C Pushed
  - D Moaned
  - E Helped
9. Which of these words is closest in meaning to "chatted" (line 17)?
- A Smiled
  - B Whispered
  - C Shouted
  - D** Talked
  - E Laughed
10. What is meant by the expression "Sanjay was swept through the gate" (line 24)?
- A** Sanjay was pushed through the gate quickly.
  - B Sanjay fell over before he reached the gate.
  - C Sanjay walked calmly through the gate.
  - D Sanjay turned around and left the queue.
  - E Sanjay jumped over the gate.

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Answer these questions about the way words and phrases are used in the passage.

11. What type of words are "echoed" (line 8) and "begged" (line 9)?
- A Nouns
  - B Adverbs
  - C Adjectives
  - D** Verbs
  - E Similes
12. "Dad led him towards a carriage with a huge grin on his face" (lines 24-25). Which of these words is an adjective?
- A Dad
  - B towards
  - C carriage
  - D** huge
  - E grin

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Choose the right word or phrase to fill the gap.  
Circle the letter which matches the correct word.

13. Yesterday, Jen **ask say told speak telled** me all about the day she spent with  
 A  B  C  D  E
14. Malik. She had asked me to go with them, but I **not couldn't do can would** go  
 A  B  C  D  E
15. because I **are has will had is** to stay in to help my mum. Jen described the den  
 A  B  C  D  E
16. they made in the woods. First, they tied a rope **until since between in though**  
 A  B  C  D  E
17. two trees **and if while because soon** then put a plastic sheet over it. Next, they  
 A  B  C  D  E
18. collected sticks and twigs **by if to so and** cover the sheet so it would blend  
 A  B  C  D  E
19. into the trees. **Finally First Second But Once** , they put dried leaves on the  
 A  B  C  D  E
20. floor of the den and **sat seated sitting seat sit** in it all afternoon. / 8

In each sentence, there is one punctuation mistake. Circle the letter which matches the part of the sentence with the mistake.

21. Fran made a giant white chocolate and raspberry cake for her older brother's birthday?  
 A  B  C  D  E
22. "Shut up! shouted Mum angrily when the boys started to argue over the last ice lolly.  
 A  B  C  D  E
23. I would'nt have believed that it was true if I hadn't seen it happen with my own eyes.  
 A  B  C  D  E
24. While I was in London, I went to Buckingham Palace with, my friends Anne and John.  
 A  B  C  D  E
25. The three naughty girl's quickly ran down the street, turned the corner and disappeared.  
 A  B  C  D  E

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In each sentence, there is one spelling mistake. Circle the letter which matches the part of the sentence with the mistake.

26. The brave explorer slowly and carefully walkked across the rocky, narrow ledge to safety.  
 A  B  C  D  E
27. George gave his sister a generous peace of chocolate cake and a big glass of lemonade.  
 A  B  C  D  E
28. Edwin wasn't as good as Hasan at tennis, but he could eassely beat him at badminton.  
 A  B  C  D  E
29. After a lot of thought, Julia decided to buy a skirt because the weather was so suny.  
 A  B  C  D  E
30. The children all had a wonderfull time on their holiday in the south of Spain.  
 A  B  C  D  E

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