

1. Simplify 7:21.  $1:3$

2. Biscuits are sold in boxes of ten biscuits. Calculate the number of packets in five boxes.

$50$

3. Three pears cost £1.35. Calculate the cost of eight pears.

$3.60$

4. There are 100 centimetres in a metre. How many metres are there in 755 centimetres?

$7.55$

5. It takes five builders take four days to fit a new kitchen. How many days would it take two builders to fit the same kitchen?

$10$

6. Share 700 in the ratio 3:7.

$210:490$

7. Carl has a bag of 33 sweets and shares them with Beth in the ratio 4:7. He gives Beth the larger share. Calculate the number of sweets he gives to Beth.

$21$

8. If 5 parts are worth 150, what are 4 parts worth?

$120$

9. Five miles is approximately equal to eight kilometres. Calculate the approximate number of miles in 950 kilometres. Give your answer to the nearest mile.

$594$

10. Simplify 4:6:20.

$2:3:10$

11. There are 12 biscuits in a packet. Cassie has 156 biscuits. How many packets did she buy?

$13$

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12. Molly is making pastry. The ratio of flour to butter is 2:1. She has 1.5kg of flour. Calculate the number of grams of butter she will need to make her pastry. Give your answer in grams.

750g

13. Share 8km in the ratio 8:3:5.

4km : 1.5km : 2.5km

14. If 1 part is worth 15, what are 10 parts worth?

150

15. Brooke and Kayla share some money in the ratio 6:5. Kayla receives £90. How much money do they share?

£198

16. Jonti makes a necklace out of beads. She uses only gold and silver beads in the ratio 4:3. How many silver beads will she need for a pattern with 49 beads in it?

21

17. Which is the odd one out?

4:10, 2:25, 20:50, 8:20.

18. Marc and Santi share some milkshake in the ratio 3:5. Marc has 600ml of milkshake. How much milkshake do they share? Give your answer in litres.

1.6L

19. In a secondary school of 1000 pupils, there are 400 pupils in KS3 and 250 pupils in KS5. Write the ratio of KS3 to KS4 to KS5 pupils. Give your answer in its simplest form.

8 : 7 : 5

20. 300g of fruit is required in a recipe for a cake that serves 15 people. How many grams of fruit would be needed to bake a cake that serves 7 people?

140g

Verbal Reasoning – Anagrams

1. CRESOC Another name for football.
2. HEBCN Something to sit on in the garden.
3. FRYER It crosses the Channel daily.
4. ARBYRIL Borrow a book from here.
5. ARMETS Will get bigger and become a river.
6. TUGAIR Some pop stars play this instrument.
7. RANAMAGS I bet you are enjoying these!
8. SPAIR The capital of France.
9. GROTUW This is made from milk.
10. SLAWE Part of the United Kingdom.

Soccer
Bench
Ferry
Library
Stream
Guitar
Anagrams
Paris
Yogurt
Wales

Anagrams – Unscramble and find the missing letter

1. The footballer made a great **ctakl** on her **ppootnn**.  
A. a      **B. e**      C. s      D. r      E. w
2. In the **ruemm**, the temperature can rise to nearly ninety **eerdge**.  
A. b      B. d      **C. s**      D. f      E. l
3. The washing **ahmnei** was full of **slohte**.  
**A. c**      B. g      C. r      D. v      E. t
4. The **rahete** entered their **moroslas** and the pupils were quiet.  
A. i      B. x      C. s      D. r      **E. c**
5. In the hospital, the **stodcr** were performing an **atnipoer**.  
A. i      B. e      C. s      **D. o**      E. y

6. At the debate in Parliament, the **lotiicnai** was making a **chese**.

- A. a      B. r      C. n      D. t      **E. p**

7. As the storm broke, the rain **sudoc** gathered and the wind **wodhe**.

- A. a      B. f      **C. l**      D. r      E. b

8. The road was wet and the car **ddeiks** around the **neb**.

- A. a      B. u      C. s      **D. d**      E. h

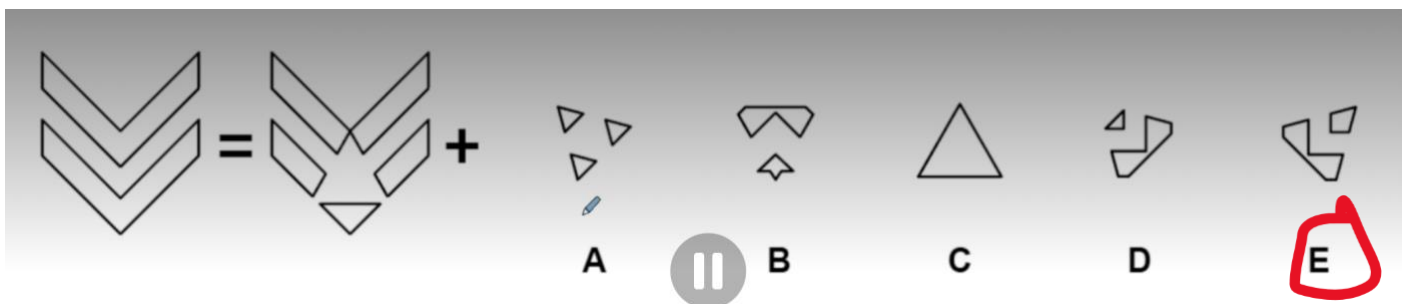
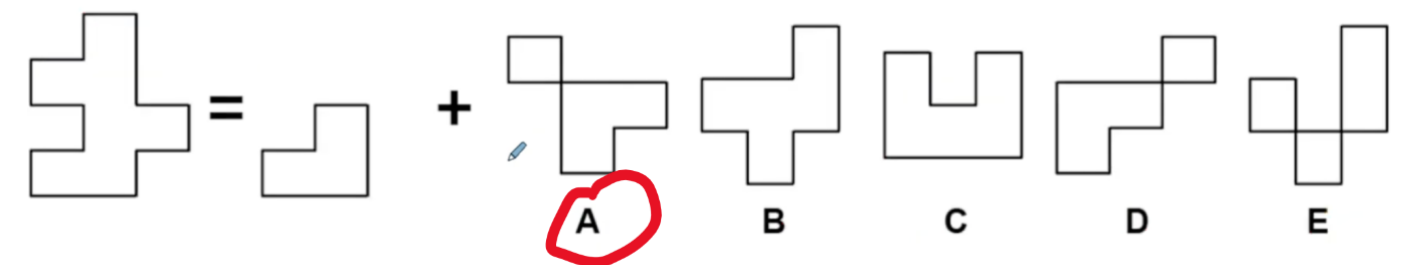
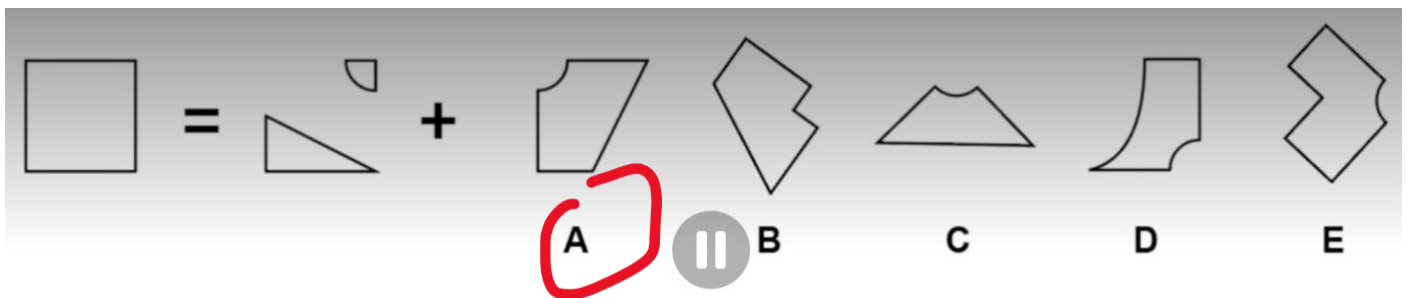
9. The builder used her **stol** to **stcucrtn** the wall.

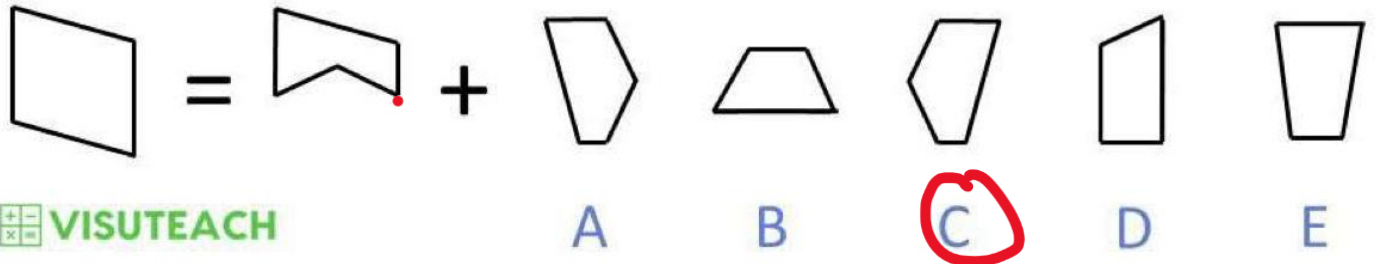
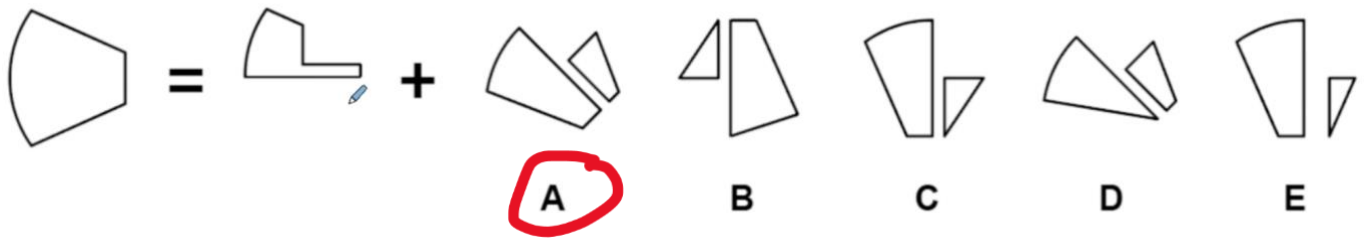
- A. t      **B. o**      C. r      D. m      E. l

10. The usher showed **opelp** to their seats at the **aminc**.

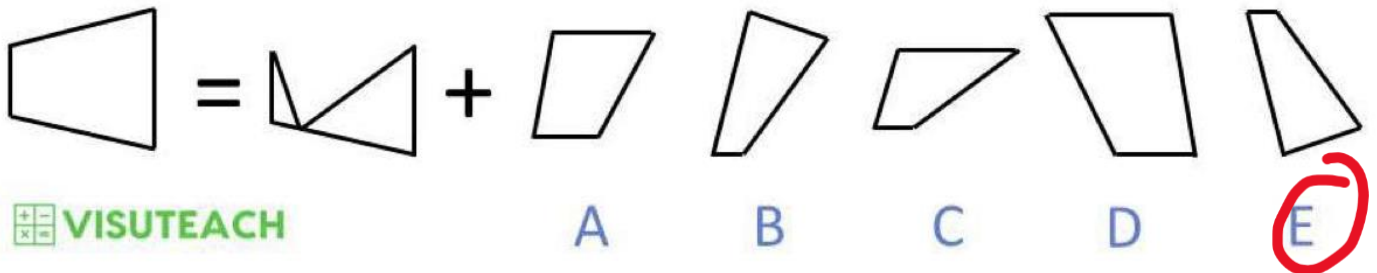
- A. r      B. f      C. r      **D. e**      E. l

**Spatial Reasoning – Jigsaw Pieces**

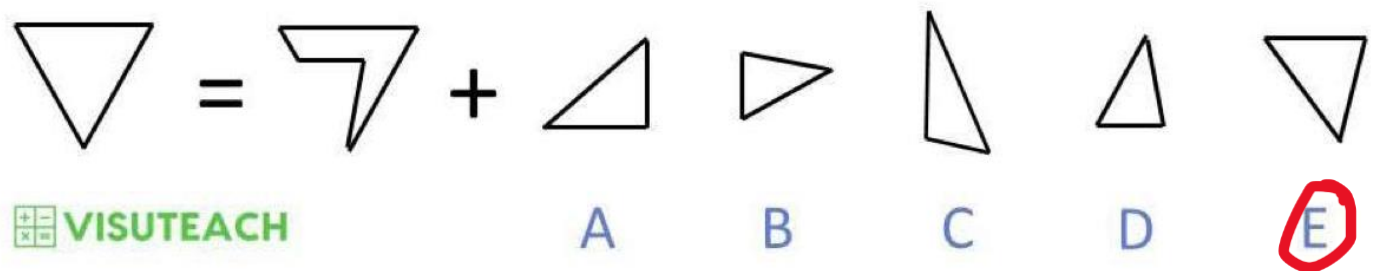




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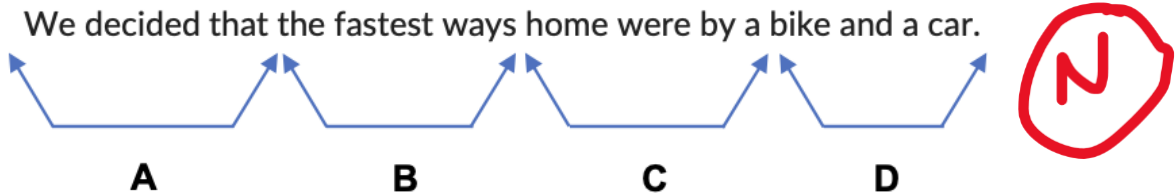


3.

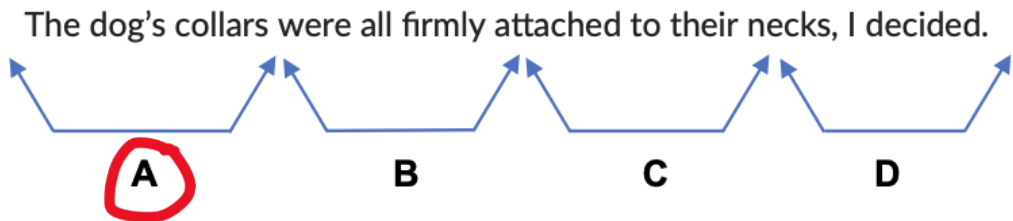


**Punctuation – Spot punctuation mistake, if there is none, write N**

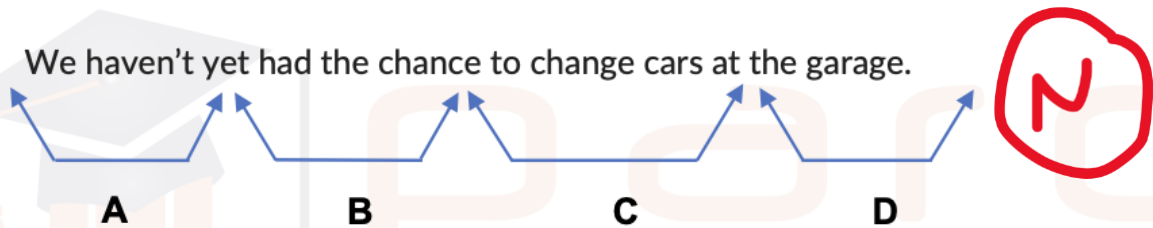
1. We decided that the fastest ways home were by a bike and a car. **N**




2. The dog's collars were all firmly attached to their necks, I decided. **A**




3. We haven't yet had the chance to change cars at the garage. **N**



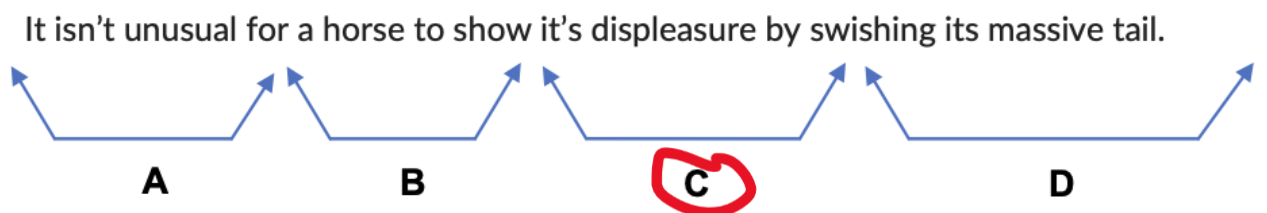
4. "How are you?" asked Mr Syms. Did you have any luck with your tie?" **B**



5. The cabbage's leaves were sprouting very nicely so we harvested it from the soil. **C**



6. It isn't unusual for a horse to show it's displeasure by swishing its massive tail. **C**



An adapted extract from 'Jack and Jill'

"Clear the way!" was the general cry on a bright December afternoon, when all the boys and girls of Harmony Village were out enjoying the first good snow of the season. Up and down three long tracks they went as fast as legs and sledges could carry them. One smooth path led into the meadow, and here the little folk congregated; one swept across the pond, where skaters were darting about like water-bugs; and the third, from the very top of the steep hill, ended abruptly at a rail fence on the high bank above the road. There was a group of lads and lasses sitting or leaning on this fence to rest after an exciting race, and, as they reposed\*, they amused themselves with criticising their mates, still absorbed in this most delightful of outdoor sports.

"Here comes Frank Minot, looking as solemn as a judge," cried one, as a tall fellow of sixteen flashed by, with a determined look about the mouth and a keen sparkle of the eyes, fixed on the distant goal with a do-or-die\*\* expression.

"Here's Molly Loo and little Boo!" sang out another; and down came a girl with flying hair, carrying a small boy behind her.

"There's Gus Burton; doesn't he go for it?" and such a very long boy whizzed by, that it looked almost as if his heels were at the top of the hill when his head was at the bottom.

People passing in the road below looked up and smiled involuntarily at the red-cheeked lads and lasses, filling the frosty air with peals of laughter and cries of triumph as they flew by; for the fun was at its height now, and the oldest and gravest observers felt a glow of pleasure as they looked, remembering their own young days.

Louisa May Alcott

\* reposed — *relaxed*

\*\* do-or-die — *all or nothing*

1. Which of the following statements is true?
  - A The passage is set in autumn.
  - B It is a cloudy day.
  - C The children are sledging in the morning.
  - D The children all come from the same place.
  - E It is the third time the children have gone sledging that year.
2. Which of the following is not mentioned in the passage?
  - A The length of the paths
  - B What the surface of the path that goes to the meadow is like
  - C What activity is taking place near the path that goes across the pond
  - D Where the second path ends
  - E Where the third path starts
3. How do the children entertain themselves when they take a break from sledging?
  - A They look for water-bugs.
  - B They compete in ice-skating races.
  - C They comment on their friends.
  - D They climb over fences.
  - E They clear snow off the paths.

4. Which of the following best describes Frank Minot?
- A He is trying not to show that he's scared.
  - B He is finding it difficult to control his sledge.
  - C He is concentrating hard on what he's doing.
  - D He is trying to judge the best route down the hill.
  - E He is trying to ignore everybody around him.
5. "down came a girl with flying hair" (lines 14-15). What does this suggest?
- A The girl's hair is covering her eyes.
  - B The girl hasn't brushed her hair.
  - C The girl is going down the steepest path.
  - D The girl is going quickly down the hill.
  - E The girl's hair is standing on end because she is scared.
6. Which of the following statements about Gus Burton is true?
- A He didn't want to go down the hill.
  - B He fell off his sledge.
  - C He went down the hill slowly.
  - D He went down the hill with Molly Loo.
  - E He is very tall.
7. "for the fun was at its height now" (line 21). What does this mean?
- A Most of the children had gone to the top of the hill.
  - B Every child was having fun.
  - C The children were having the most fun they'd had all afternoon.
  - D All the children were laughing.
  - E It was the most popular time of day to go sledging.
8. Which of the following best describes the older people who watch the children playing?
- A They are enjoying memories of their youth.
  - B They are relieved that the children are playing safely.
  - C They are amused because the children are doing funny tricks.
  - D They are sad that they cannot join in themselves.
  - E They are inspired to go sledging themselves.
9. Which of the following is closest in meaning to "involuntarily" (line 19)?
- A Without understanding
  - B Without regret
  - C Without thought
  - D Without judgement
  - E Without sincerity

10. What does the word "gravest" (line 22) mean?

- A Most knowledgeable
- B Most attentive
- C Most amused
- D Most sensitive
- E Most serious**

11. Which of the following quotes contains an example of a simile?

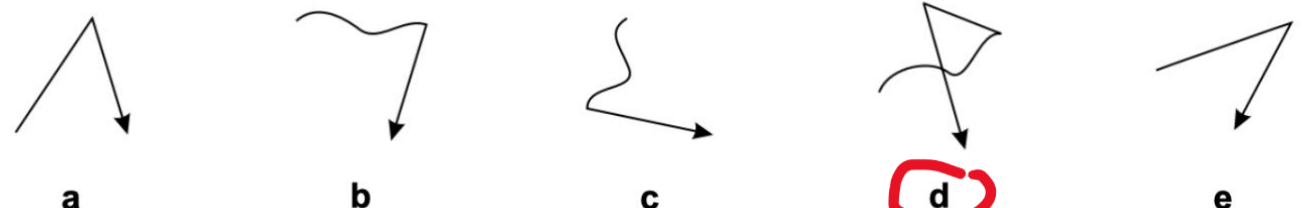
- A "they went as fast as legs and sledges could carry them"
- B "one swept across the pond"
- C "still absorbed in this most delightful of outdoor sports"
- D "Here comes Frank Minot, looking as solemn as a judge"**
- E "filling the frosty air with peals of laughter"

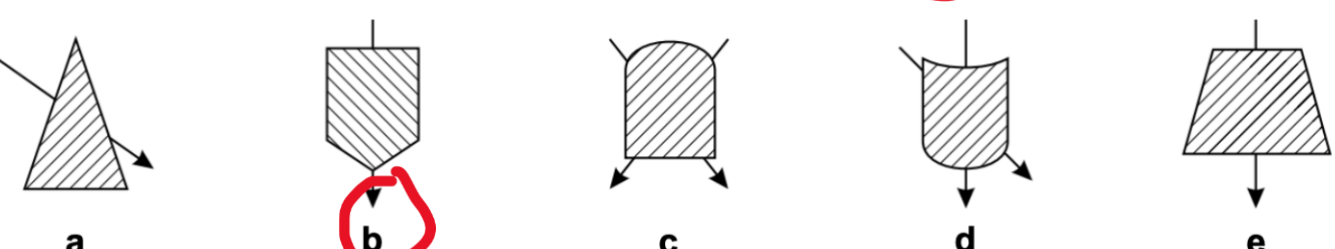
12. "felt a glow of pleasure as they looked" (line 22).

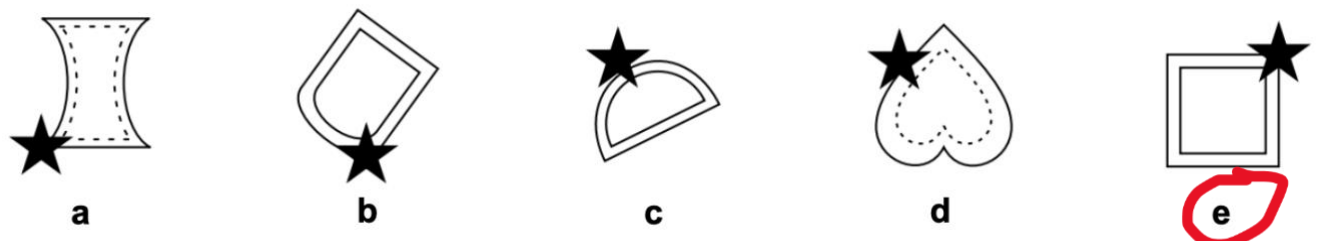
What type of word is "pleasure" as it is used in this phrase?

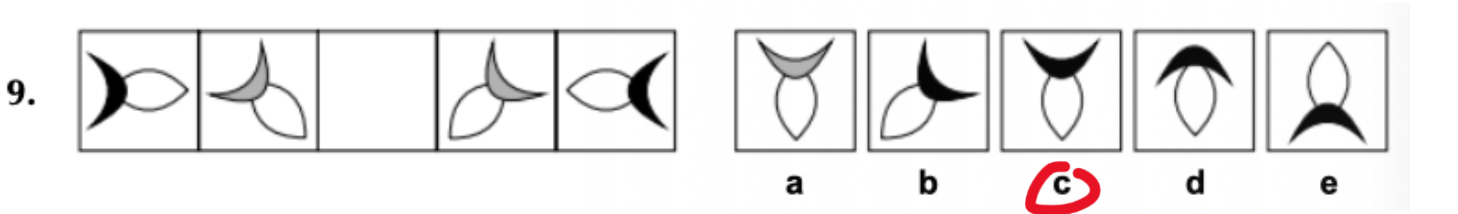
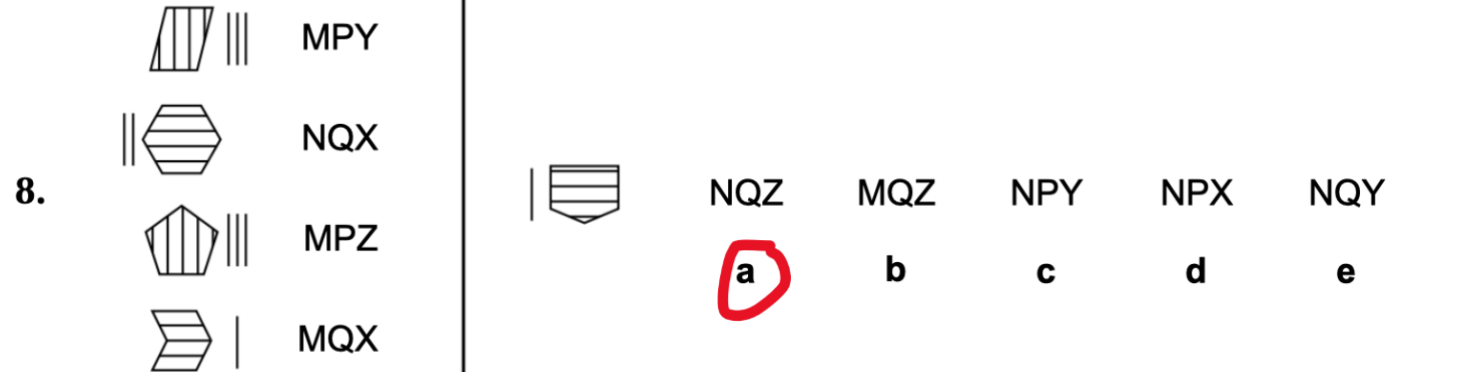
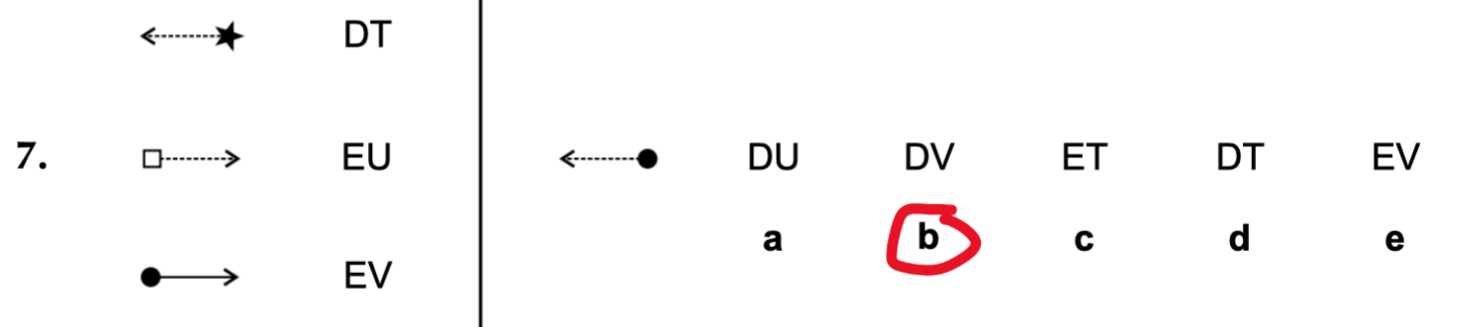
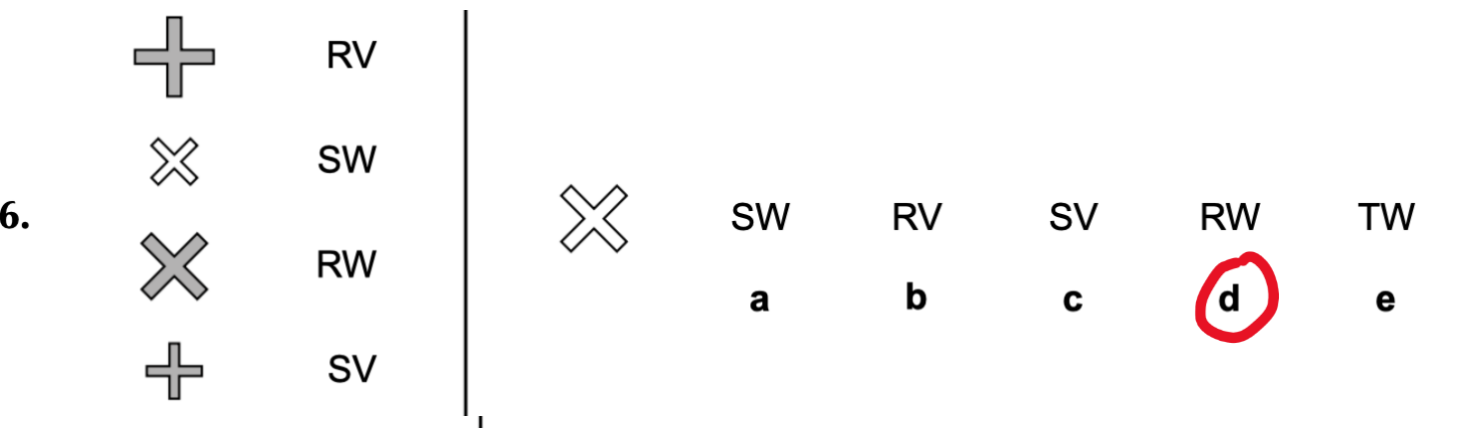
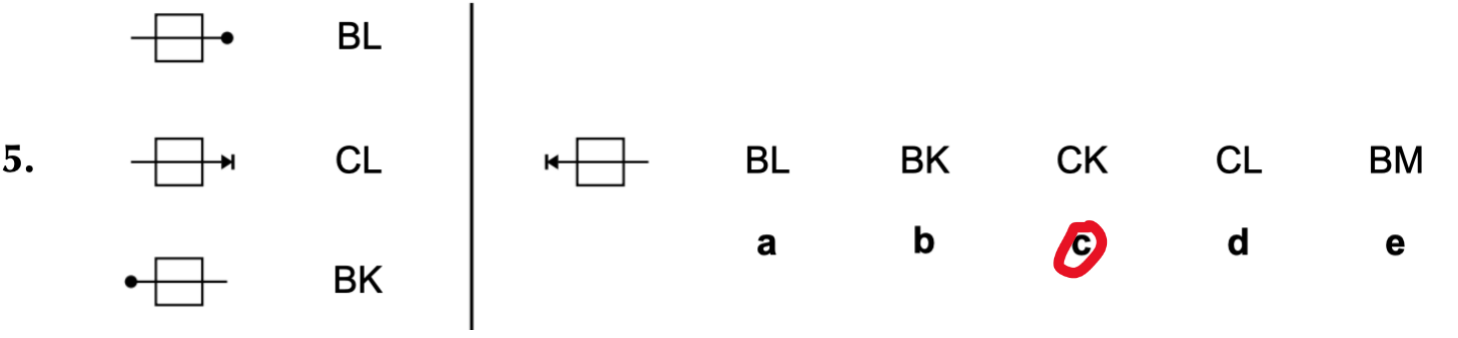
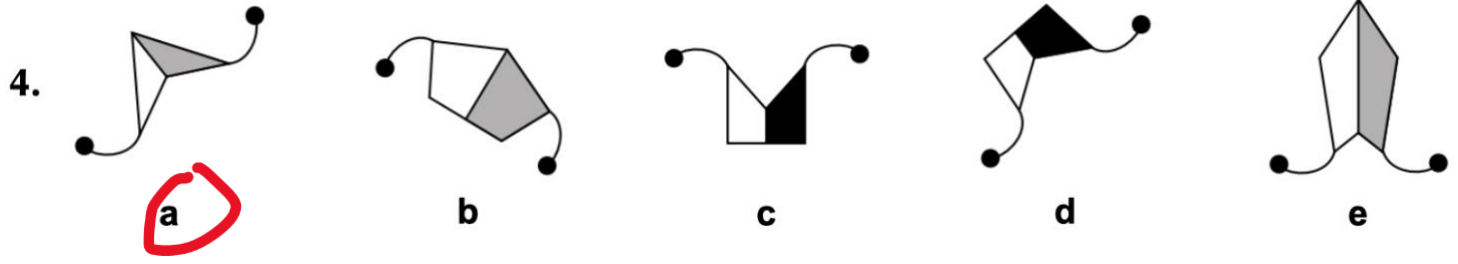
- A Verb
- B Adverb
- C Adjective
- D Abstract Noun**
- E Common Noun

**Non – Verbal Reasoning RECAP**

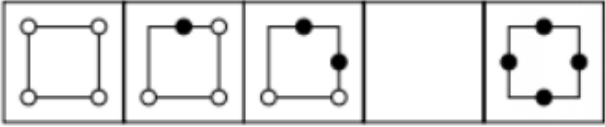
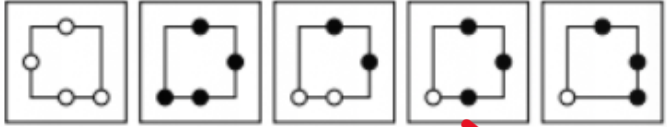
1. 



2. 



3. 

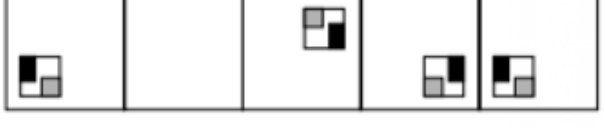



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10.  

11.  

12.  

13.  

Verbal Reasoning - RECAP

Find the letter that will finish the first word and start the second word of each pair. The same letter must be used for both pairs. Write your answer on the line.

**Example:** par (?) een    bac (?) ept    (   k   )

1. bak (?) arn    mil (?) lm    (   e   )
2. par (?) ake    ma (?) hin    (   t   )
3. mas (?) eal    wit (?) arm    (   h   )
4. yar (?) est    ta (?) ote    (   n   )

Three of the words in each list are linked. Underline the two words that are **not** related to these three.

**Example:** puppy kitten duck calf sheep

- 5. lizard crab crocodile snake lobster
- 6. scenery play decorations book film
- 7. month afternoon evening day morning
- 8. shriek yelp squeal chortle snicker

In each sentence below, a four-letter word is hidden at the end of one word and the start of the next. Write the hidden word on the line.

**Example:** We were flying low below the clouds. ( glow )

- 9. Please don't rip the paper. ( trip )
- 10. My picnic almost blew away. ( calm )
- 11. Anya is cooking gammon tonight. ( onto )
- 12. She is going rowing later. ( grow )
- 13. There's a wasp in my room. ( spin )

The number codes for three of these four words are listed in a random order. Work out the code to answer the questions. Write your answer on the line.

**BALE BEAT BOLT LATE**

**5632 5134 3124**

- 14. Find the code for the word **BEAT**. ( 5412 )
- 15. Find the code for the word **TEAL**. ( 2413 )
- 16. Find the word that has the number code **5612**. ( BOAT )

Maths RECAP

1. One cookie at a bakery costs £1.13. Tim orders 100 cookies. What is the total cost of Tim's cookie order? Circle the correct option.

A £11.30

**C** £113

E £113.13

B £1130

D £11.13

2. Alex goes on a 13.47 km walk. How far does he walk to the nearest tenth of a kilometre?

Answer: 13.5 km

3. Izumi measures the heights of her three mini cactuses and records them in the table below. Which cactus (A, B or C) is the shortest?

Cactus	A	B	C
Height	6.82 cm	7.21 cm	6.89 cm

Answer: A

4. Ollie goes to the gym for 50 minutes. He spends 35 minutes on the treadmill. What percentage of his time at the gym does Ollie spend on the treadmill? Circle the correct option.

A 35%





B 50%

C 30%

D 25%

**E** 70%

5. A village pub wants to know which meal on their menu is the most popular. They record what people order one weekend and put the results in a pictogram.

Fish and Chips	
Vegetable Curry	
Roast Beef	
Chicken Pie	

Key:  8 people

How many people ordered either fish and chips or roast beef? Circle the correct option.

A 8

**B** 48

C 42

D 80

E 56

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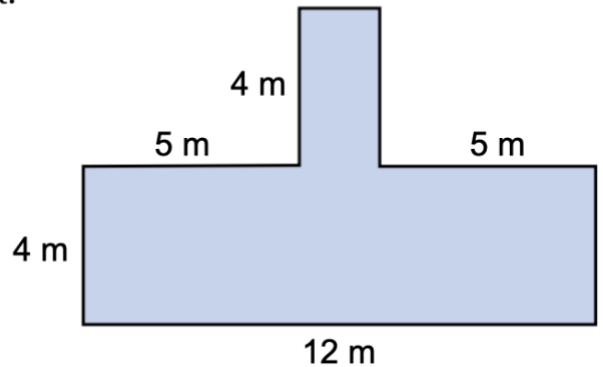
6. Hamza has £50 in savings. He buys some headphones for £35.85. How much money does Hamza have left?

Answer: £ 14.15

7. Charlie has designed a patio in his garden, as shown below. He wants to put a fence all the way around it.

How many metres of fencing does he need?  
Circle the correct option.

- A 40 m                      D 38 m  
 B 30 m                      E 36 m  
 C 24 m



8. Ralph gets on the bus at Spatterthorpe to go to Conilton.

Spatterthorpe	Rowleigh	Conilton	Kettleby
13:49	14:10	14:38	14:54

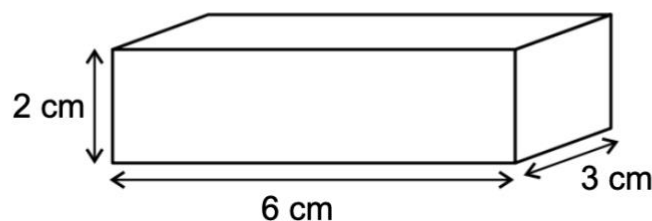
His bus leaves Spatterthorpe on time but is delayed in Rowleigh, so it arrives in Conilton 8 minutes later than expected. How long in minutes does Ralph spend on the bus?

Answer: 57 minutes

9. Ursula needs to score 1750 points over three rounds to get to the next level of a video game. She scores 950 points in Round 1 and 475 points in Round 2. How many points does Ursula need in Round 3? Circle the correct option.

- A 315                       B 325                      C 215                      D 335                      E 265

10. Annabel makes bars of fudge that are 6 cm long, 3 cm wide and 2 cm high.



How many bars of fudge can she fit in a 6 cm by 6 cm by 4 cm gift box?

Answer: 4