

**Verbal Reasoning – Session**

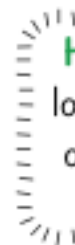
4	10	16	22	28	( <u>34</u> )
1	10	19	28	37	( <u>46</u> )
1	2	3	5	8	( <u>13</u> )
2	4	8	16	32	( <u>64</u> )
16	2	14	6	12	10 ( <u>10</u> )
1	4	9	16	25	( <u>36</u> )
13	14	16	19	23	( <u>28</u> )
8	9	13	7	18	5 ( <u>23</u> )

**Closest Meaning**

- (slide skip tumble) (fall dive skate)
- (collapse crush ruin) (injure spoil wound)
- (vehicle bus ticket) (train coach receipt)
- (pot barrel bucket) (spade scoop pail)
- (man child mother) (wife male adult)
- (whisper hoarse listen) (say mumble quiet)
- (crafty villain wrong) (naughty sly wicked)

**Opposite Meaning**

- (humble poor unhappy) (proud ordinary weak)
- (unusual dull interesting) (long mundane old)
- (challenge conquer battle) (fight lose drop)
- (decaying ancient dirty) (elegant decorative modern)
- (brave strong confident) (shy surly suspicious)
- (cease ban prevent) (finish commence abolish)
- (reserved slow serene) (busy frenzied troublesome)



**Multiple Meaning**

- |                   |                     |   |
|-------------------|---------------------|---|
| 1. (dry clear)    | (nice lovely)       | bright good great <u>fine</u> sunny         |
| 2. (turn revolve) | (bun bread)         | snack spin circle <u>roll</u> rotate        |
| 3. (pink blush)   | (soared ascended)   | red lifted <u>rose</u> bloom floated        |
| 4. (firm solid)   | (difficult awkward) | rigid complex stiff troublesome <u>hard</u> |
| 5. (take guide)   | (first main)        | command head <u>lead</u> chief direct       |
| 6. (error fault)  | (muddle confuse)    | wrong <u>mistake</u> puzzle baffle slip     |

**Verbal Reasoning – Homework – 15mins**

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. bo (?) et   | cos (?) olk | ( <u>u</u> ) |
| 2. fou (?) ain | ca (?) ack  | ( <u>r</u> ) |
| 3. pas (?) ort | bu (?) tem  | ( <u>s</u> ) |
| 4. lum (?) ulp | zi (?) olo  | ( <u>p</u> ) |

Choose the word that has a similar meaning to the words in both sets of brackets. Underline your answer.

**Example:** (twig branch) (fasten attach) glue stick trunk affix bough

- |                      |                    |   |
|----------------------|--------------------|---|
| 5. (cat dog)         | (pat rub)          | stroke animal <u>pet</u> cuddle hamster |
| 6. (dessert main)    | (direction route)  | dish <u>course</u> path starter road    |
| 7. (prohibit forbid) | (beam rail)        | refuse handle <u>bar</u> disallow stake |
| 8. (lard butter)     | (overweight plump) | <u>fat</u> stout obese oil large        |

Underline the pair of letters that completes each sentence in the most sensible way. Use the alphabet to help you.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

**Example:** **DG** is to **FE** as **RU** is to (TS SR TU ST US).

13. **TN** is to **XP** as **AX** is to (EZ BZ FY FB EB).

14. **RT** is to **NQ** as **XF** is to (RD TC TA VZ TD).

15. **VI** is to **ER** as **NK** is to (MP MN MO MQ KR).

16. **MS** is to **OQ** as **KH** is to (FM IF IJ MJ MF).

Find the three-letter word that completes the word in capital letters, and so finishes the sentence in a sensible way. Write your answer on the line.

**Example:** It can be **CHY** outside when it snows. ( ILL )

1. Louise decided to write a **FASY** novel. ( ant )

2. We saw the **VOLO** erupt. ( can )

3. Viraj wants to **COME** in the race. ( pet )

4. You should **ALS** lock the door. ( way )

Find the number that continues each sequence in the best way. Write your answer on the line.

**Example:** 3 6 9 12 15 ( 18 )

5. 46 37 28 19 10 ( 1 )

6. 23 25 28 32 37 ( 43 )

7. 17 19 14 16 11 ( 13 )

8. 13 39 18 29 23 19 ( 28 )

Underline two words, one from each set of brackets, that have the most opposite meaning.

**Example:** (eager happy curious) (tired sad unwell)

9. (genuine unusual proper) (typical random strange)  
10. (professional employee useless) (expert amateur average)  
11. (sensible punctual clever) (late former previous)  
12. (additionally rarely poorly) (often seldom hardly)

Underline two words, one from each set of brackets, that have the most similar meaning.

**Example:** (cream treat dessert) (cake pudding delicious)

1. (walk climb ride) (stretch race pace)  
2. (auction stand market) (stall delay hold)  
3. (open begin startle) (zap shock wire)  
4. (temporary eternal moment) (everlasting sometimes stable)

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. The caramel tasted very sweet.

( melt )

10. My cousin goes to art class.

( sing )

11. Ben asked or more paper.



( form )

12. I had a tuna melt sandwich.

( name )

Non-Verbal Reasoning – Homework

1.



a


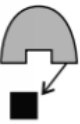
b

c

d

e

2.



a



b

c

d

e

3.



a

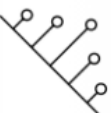
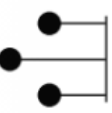
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4.



a

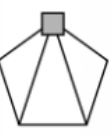
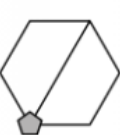
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5.



a




b

c

d

e

6.

a




b

c

d

e

7.

a

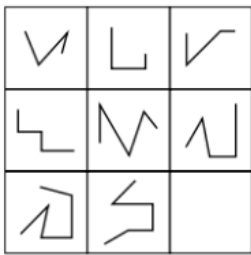
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8.



a



b



c

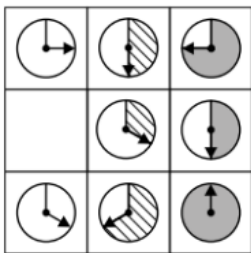


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e

9.



a



b



c

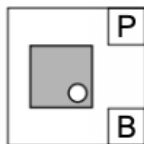


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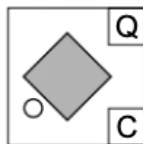
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10.



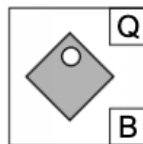
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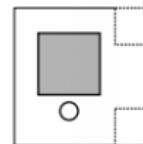
Q

C



Q

B



Q

B



P

C



P

B



Q

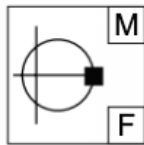
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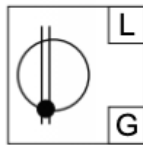
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11.



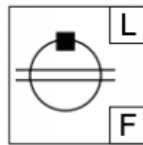
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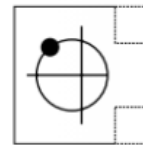
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G



L

F



L

F



M

F



M

G



L

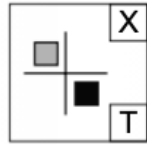
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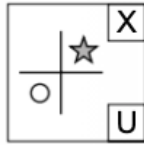
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12.



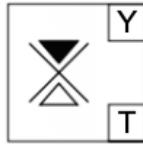
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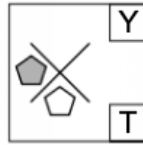
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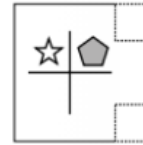
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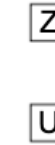
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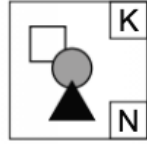
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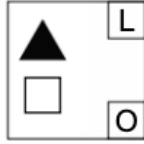
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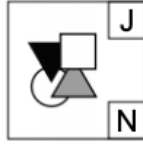
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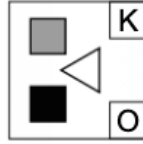
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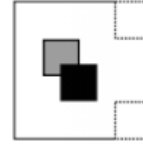
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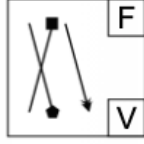
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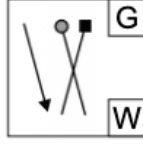
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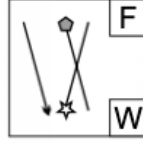
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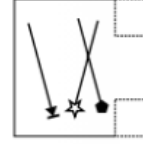
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G

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**Harriet Chalmers Adams**

Harriet Chalmers Adams, born in 1875, was one of the greatest explorers of her era. As most famous explorers of that time were men, this makes her feats even more extraordinary. Her adventures began at the age of eight, when her father took her on horseback through the Sierra Nevada, an American mountain range full of formidable, towering peaks. The various trips she went on with her father and the education she received from him sparked a passion for exploration that would make her life utterly unique.

Harriet married Franklin Pierce Adams in 1899 and they soon went on an expedition to South America. During their travels, they covered a staggering 40 000 miles by hiking, canoeing, riding horses and using trains. The journey also involved crossing numerous mountains that were more than 22 000 feet high. In travelling the length and breadth of South America, Adams is believed to have become the first white woman to explore many of the regions on this continent.

Adams embarked on other impressive expeditions too. She followed a route by Christopher Columbus, an explorer born in 1451, through the West Indies, a group of islands near South America. Spain began to rule over some of these islands in the 1500s, as well as over large parts of South America. This interested Adams, and her aim was to visit every country that was ruled by Spain or formerly had been.

Adams didn't limit herself to exploring — in 1917, during World War I, she was the first female journalist allowed on the French frontlines. In 1925, she joined the Society of Woman Geographers as their first president. This organisation aims to help women around the world undertake exploration and geographical research.

Adams proved her dedication to exploration many times in her life. Even when she was told she would never walk again after falling while trying to rescue a climber, she recovered from her injuries and resumed travelling a few years later.

1. In the passage, it says that Adams's passion for exploration "would make her life utterly unique" (lines 6-7). This means that exploration:

- ☒ A would make Adams's life stand out from other people's.
- ☐ B would make Adams's life very unpredictable.
- ☐ C would be the only thing in Adams's life that she valued.
- ☐ D would make Adams extremely happy.
- ☐ E would completely change Adams's life.

2. Which statement about Adams's travels in South America is true?

- ☐ A She canoed for 23 000 miles.
- ☐ B She travelled on her own.
- ☐ C She climbed 40 000 feet up a mountain.
- ☐ D She met her future husband while on a train.
- ☒ E She travelled using various forms of transport.

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3. In the passage, it says that Adams travelled "the length and breadth of South America" (line 12). This means that:
- A Adams got lost while travelling around South America.
  - ☒ B Adams travelled all over South America.
  - C Adams first travelled down South America and then across it.
  - D Adams only travelled along the coastline of South America.
  - E Adams only travelled to a few countries in South America.
4. According to the passage, which of the following about Adams is true?
- A She was the first woman to travel over a mountain.
  - ☒ B She was the first white woman to visit certain areas of South America.
  - C She was the first white woman to ever go to South America.
  - D She was the first woman to become an explorer.
  - E She was the first woman to travel to a different continent.
5. Which of the following statements is false?
- A Adams was interested in Spain and the land it gained.
  - B Christopher Columbus visited the West Indies before Adams.
  - ☒ C Adams copied a route that was taken on another expedition.
  - D Adams wanted to visit all the lands Spain used to possess.
  - E The West Indies are on the South American mainland.
6. According to the passage, when did Adams work as a journalist?
- A In 1875
  - B In 1899
  - C In 1917
  - D In 1925
  - ☒ E In 1929
7. According to the passage, where did Adams spend time during World War I?
- A A French military headquarters
  - B South America
  - C A Spanish war zone
  - ☒ D A journalism school
  - E The French frontlines
8. Which of the following about Adams is not mentioned in the passage?
- A When she became part of the Society of Woman Geographers.
  - B What role she had in the Society of Woman Geographers.
  - C What she was doing when she fell and hurt herself badly.
  - ☒ D What injury she had as a result of her fall.
  - E How long after her fall it was before she was travelling again.



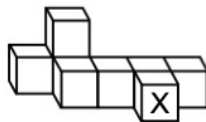
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9. Which word is closest in meaning to "formidable" (line 5)?
- A Ancient
  - B Steep
  - C Rocky
  - D Gigantic
  - ☒ E Intimidating
10. Which word is closest in meaning to "staggering" (line 9)?
- ☒ A Astonishing
  - B Memorable
  - C Daring
  - D Tiring
  - E Challenging
11. "The journey also involved crossing numerous mountains" (lines 10-11). Which of these words is an adjective as it is used in the sentence?
- A journey
  - B also
  - C crossing
  - ☒ D numerous
  - E mountains
12. "This organisation aims to help women around the world undertake exploration" (lines 21-22). The word "organisation" is an example of what type of word?
- A Verb
  - B Adjective
  - ☒ C Noun
  - D Preposition
  - E Adverb

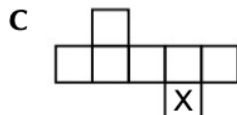
## Maths – Session

1. Anna rounds the number 4 230 850 to the nearest thousand. What is the value of the 1 in the new rounded number? Circle the correct option.
- A one million      ☒ C one thousand      E one hundred  
B ten thousand      D ten

2. Les makes the shape shown on the right out of identical cubes.



Which of the following shows the shape as seen directly from the front, so that the X is viewed head-on? Circle the correct option.



3. A recipe for a fruit salad uses the ratio 2:5 for the proportion of apples to oranges. Ruth puts 6 apples in her fruit salad. How many oranges does she use?

Answer: 15

4. Penny is walking her dog. They walk 2 miles to the beach. They then take a different route back home, which is 3.4 km long. If 1 mile = 1.6 km, how far does Penny walk her dog? Give your answer in km.

Answer: 6.6 km

5. The advertisement shown is from local newspaper 'The Daily Scoop'.

**More People Read The Daily Scoop**

70% of people surveyed said they read The Daily Scoop — only three out of every four people surveyed said they read The Morning Cable.

Why is the advertisement misleading? Circle the correct option.

- ☒ A It doesn't say how many people were surveyed.  
☐ B It doesn't say if people read any other newspapers than the two mentioned.  
☐ C According to the survey, more people actually read The Morning Cable.  
☐ D The survey says each newspaper is read by the same number of people.  
☐ E The Daily Scoop wrote the advertisement, so they must have made it up.

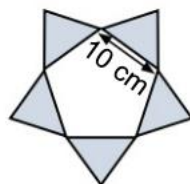
6. Fluffy drinks 20% more milk than Mrs Tibbles. Mrs Tibbles drinks 350 ml of milk. How much milk does Fluffy drink?

Answer: 420 ml

7. Alain is setting out seats for a concert. The front row contains the fewest seats, then the other rows each have an equal number of seats. There are 154 seats altogether, spread across 13 rows. The front row contains 10 seats. How many seats are in each of the other rows? Circle the correct option.

- ☒ A 11      ☐ C 13      ☐ E 15  
☐ B 12      ☐ D 14

8. Five identical isosceles triangles are arranged to create a star, as shown below. Each isosceles triangle has a base length of 10 cm and a perimeter of 26 cm.



The bases of the triangles form a regular pentagon. What is the perimeter of the star?

Answer: 80 cm

9. Arran wins £150. He gives 5 of his friends  $\pounds P$  each. Which expression shows how much money he has left over, in pounds? Circle the correct option.

A  $150 - P$   
 B  $5P$   
☒ C  $150 - 5P$   
 D  $150P$   
 E  $100 + 5P$

10. Mr Klein's car will travel 39.5 miles for every gallon of fuel used. He rounds this to the nearest mile before estimating the amount of fuel he needs for a 440 mile trip.

His car has exactly the amount of fuel that he estimated he would need.  
 How many miles short of his destination will this amount of fuel get him?  
 Circle the correct option.

A 55 miles  
 B 0.55 miles  
☒ C 5.5 miles  
 D 0.055 miles  
 E 5 miles

/ 10

**Maths – Homework 10min timer. Go over with no timer**

1. The number of cakes a bakery sold during one month is 3820 to the nearest 10. What is the largest number of cakes that could have been sold during this time?

Answer: 3824

2. Mrs Finch herds the same number of cows into a field every hour. The table below shows how many cows were in the field each hour.

Time	Cows
08:00	148
09:00	159
10:00	170
11:00	181
12:00	

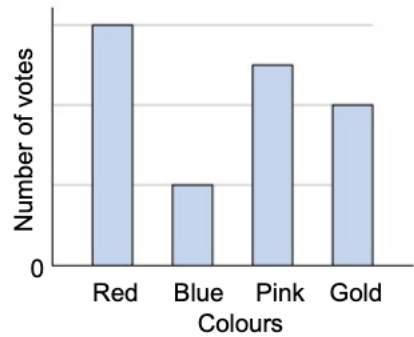
How many cows will there be in the field at midday?

Answer: 192

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3. Rosie is stacking boxes. The greatest number of boxes which can be stacked safely in one pile is 7. There are 100 boxes to stack altogether. How many boxes will be left over once they have been stacked into piles of 7?
- Answer: 2

4. Mrs Stone's class made a bar chart to show their favourite colours, but they forgot to put numbers on the scale. The most popular colour was chosen by 12 pupils. How many pupils chose blue?
- Answer: 4



5. John thinks of a number between 30 and 39 and counts backwards in steps of 7. He reaches the number 5. What number did he start from?
- Answer: 33

6. Kamal records the number of bike rides 8 people went on in a month. He puts his data in the sorting diagram below.

	?	?
Factor of 12	2 3	4 6
Not a factor of 12	5 7	8 9

Which of the following could be the two missing labels from Kamal's sorting diagram? Circle the correct option.

- A Not a square number / Square number  
B Odd / Even  
C Whole number / Not a whole number  
**D Prime number / Not a prime number**  
E Factor of 21 / Not a factor of 21
7. A group of pupils took part in a sponsored run. The table shows how far they each ran. What fraction of the group ran 300 m or less? Circle the correct option.
- A  $\frac{2}{3}$       **C  $\frac{11}{15}$**       E  $\frac{3}{4}$   
B  $\frac{1}{3}$       D  $\frac{5}{6}$

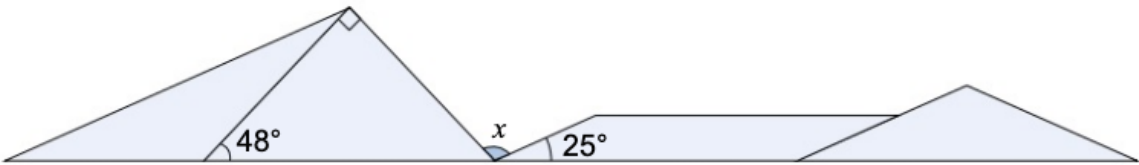
Distance (m)	Number of pupils
1-100	4
101-200	6
201-300	12
301-400	8

8. Caitlin buys 2 bottles of water and 3 pieces of the same type of fruit from the menu shown on the right. She spends £2.15. Which fruit did she buy? Circle the correct option.

Healthy Menu	
Bottled Water	55p
Apple	70p
Banana	35p
Peach	45p
Plum	25p
Orange	40p

- A Apple                      D Plum  
**B** Banana                  E Orange  
C Peach

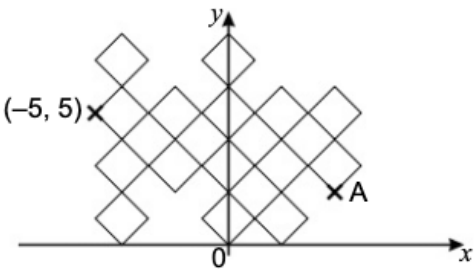
9. A town council is building a mountain biking track at a local youth centre. Part of the design for the track is shown below.



What is the size of the angle marked  $x$ ?

Answer: 113 °

10. Skye draws a series of identical squares on the axes below. The coordinates of one corner are shown.



What are the coordinates of point A? Circle the correct option.

- A (2, 1)                      C (2, 4)                      E (5, 5)  
**B** (4, 2)                      D (2, 2)



**English - Spelling**

1. Hamad had always been a keen amature photographer. Ever since he was young,  

A	B	C	D
---	---	---	---

N
2. he had been obsessed with taking pictures of the world around him. His greatest  

A	B	C	D
---	---	---	---

N
3. asperation was to have the opportunity to take a picture of the Northern Lights.  

A	B	C	D
---	---	---	---

N
4. After saving paintakingly, Hamad bought a flight to Iceland to finally fulfil his  

A	B	C	D
---	---	---	---

N
5. dream. On seeing the extrordinary lights appear across the sky at long last, he  

A	B	C	D
---	---	---	---

N
6. was in awe — they were so magical that they seemed to defy explanasion.  

A	B	C	D
---	---	---	---

N

**Punctuation**

4. Every winter, Victor goes to visit his cousin Jane (who lives on a farm in Wales.)  

A	B	C	D
---	---	---	---

N
5. He always dreads these visits; he thinks the countryside's boring and the animals  

A	B	C	D
---	---	---	---

N
6. make him nervous. He'd much rather be at home watching TV in his room.  

A	B	C	D
---	---	---	---

N
7. Crisp snow crunches underfoot as Victor trudges slowly up to Janes' house.  

A	B	C	D
---	---	---	---

N
8. "Oh well." he thinks, "at least I'll be able to make a snowman this year."  

A	B	C	D
---	---	---	---

N