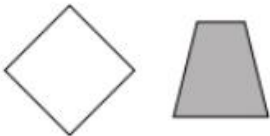













Term 6 Session 5

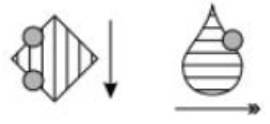
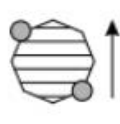
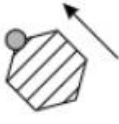
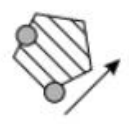
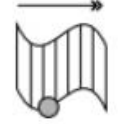
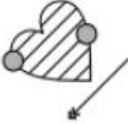
**Non-Verbal Reasoning - SESSION**

1.  |     







a b c d e

2.  |     

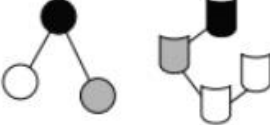
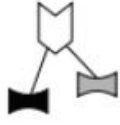
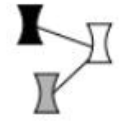
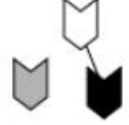


a b c d e

3.  |     

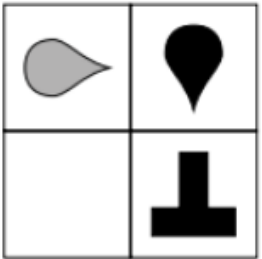





a b c d e

4.  |     







a b c d e

5.  |     

a b c d e

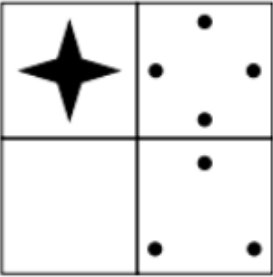
6.  |     

a b c d e

7.  |     

a b c d e

8.



a



b



c

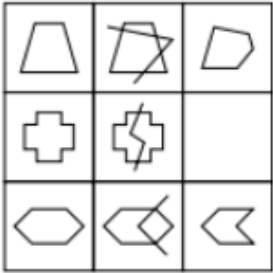


d



e

9.



a



b



c

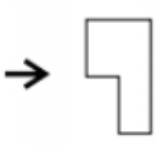


d



e

10.



a



b



c

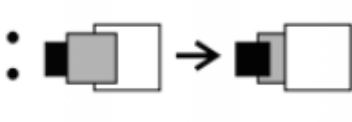


d



e

11.



a



b



c

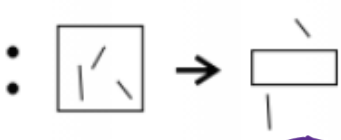
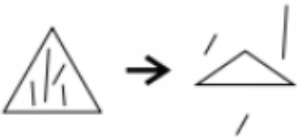


d



e

12.



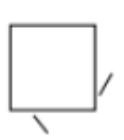
a



b



c

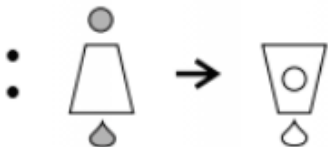
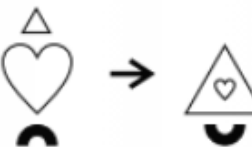


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e

13.



a



b



c











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









e











11.  →  :  →




a     b     c     d     e 






12.  →  :  →


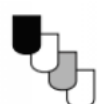

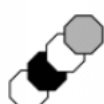

a     b     c     d     e 

13.  →  :  →

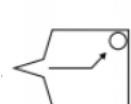

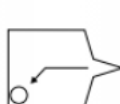

a     b     c     d     e 

14.  →  :  →


a     b     c     d     e 

a     b     c     d     e 

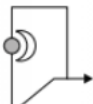
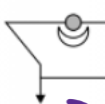
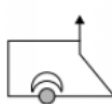
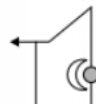

others all have 4

a     b     c     d     e 

others arrow  
points at ball

a     b     c     d     e 

others no line  
between the dots

a     b     c     d     e 

others rotation of  
each other

Term 6 Session 5

a b c d e

a b c d e

a b c d e

a b c d e

others dots on top of arrows

others lines go the same way

others black shape on top

others arrow point left

Non-Verbal Homework – 10MIN TIMER

1.

a b c d e

2.

a b c d e

3.

a b c d e

4.

a b c d e

5.

a b c d e

6.

a

b

c

d

e

7.

a

b

c

d

e

8.

a

b

c

d

e

9.

a

b

c

d

e

others are quadrilaterals

others rotation

others same smaller shape inside the outside shape

others star not on the line

10.

a

b

c

d

e

11.

a

b

c

d

e

12.

a

b

c

d

e

13.

a

b

c

d

e

**The Mystery of the *Mary Celeste***

In November 1872, a ship named the *Mary Celeste* embarked from New York on a long journey to Italy. Nearly a month later, it was found drifting in the Atlantic Ocean, its sailors and passengers missing. The seven crew members and the captain, along with his wife and infant daughter, were never seen again.

- 5 In an attempt to find a plausible explanation for the disappearance of those on board, experts have tried to piece together various clues. So far, they have failed to reach a conclusion. When the deserted *Mary Celeste* was found by a ship named the *Dei Gratia*, the crew of the abandoned ship had been missing for some time — the most recent entry in the logbook\* was from ten days before. One of the last
- 10 entries documented harsh weather conditions. However, according to researchers, the storm hadn't been bad enough to seriously damage the ship. So why, upon boarding the *Mary Celeste*, did the crew of the *Dei Gratia* find that the lifeboat was missing? The *Dei Gratia's* crew also reported that seawater had infiltrated the bottom of the ship, some navigational equipment was gone and there was plenty
- 15 left in the food stores. Interestingly, they found that the crew's belongings were still in their living quarters, which indicated that they left the ship in a hurry.

- However, the reasons for a sudden departure are unclear. At the time, some suspected that the *Dei Gratia's* crew took over the *Mary Celeste*, killed those on board and then covered up what they had done so they could claim money for
- 20 rescuing the ship. Other theories have stayed afloat over time. One of these is that the crew abandoned the ship because of a waterspout — a whirlwind of water that whooshes across the ocean's surface and can damage ships. Others believe that the ship was attacked by a giant squid or even that the crew were abducted by aliens. Without accounts from people who witnessed the ship's abandonment,
- 25 researchers continue to be baffled.

\* logbook — a book in which  
daily events are  
recorded

**TURN OVER ➡**

1. Which of the following statements is false?
- A The *Mary Celeste's* passengers were never found.
  - B The *Mary Celeste* set off in November.
  - C There were ten people on board the *Mary Celeste*.
  - ☒ D The *Mary Celeste* began its voyage in Italy.
  - E Members of the captain's family were on board the *Mary Celeste*.
2. According to the text, how did the *Dei Gratia's* crew know that the passengers of the *Mary Celeste* had been missing for a while?
- A The *Mary Celeste's* logbook had only been filled out ten times.
  - B The ship didn't look as if it had been lived on for a long time.
  - ☒ C It had been over a week since the logbook was filled out.
  - D Someone had written the date that they left the ship in the logbook.
  - E The lifeboat was nowhere in sight on the ocean.



Term 6 Session 5

3. Why do you think the text questions “why” the lifeboat was missing?
- A The lifeboat had been damaged, so it wasn’t fit to travel in.
  - ☒ B There was no obvious reason for the crew to abandon the ship.
  - C The lifeboat was too small to fit everyone on the ship inside.
  - D The storm had been too bad to risk leaving the ship.
  - E There was no land nearby, so the crew shouldn’t have left the ship.
4. Which of the following did the *Dei Gratia*’s crew not discover when they boarded the *Mary Celeste*?
- A Some of the tools used for navigating were missing.
  - B Water had flooded into the lower part of the ship.
  - C There was food left on the ship.
  - D The passengers had abandoned their possessions.
  - ☒ E The logbook was missing some pages.
5. Which of the following is not mentioned in the passage?
- A How long the *Mary Celeste* was at sea before it was located
  - B Where the *Mary Celeste* was found
  - ☒ C Who was in charge of writing the *Mary Celeste*’s logbook
  - D Where the possessions of the *Mary Celeste*’s crew were discovered
  - E What the *Dei Gratia*’s crew might have gained from finding the ship
6. “Other theories have stayed afloat over time” (line 20). This suggests that:
- A a lot of people believe the passengers left the ship due to a leak.
  - B experts can’t decide which theory is the most believable.
  - ☒ C a number of theories still haven’t been proved wrong.
  - D some theories don’t have any evidence to support them.
  - E a lot of the theories contradict each other.
7. Which of the following is not mentioned in the text as a theory about why the passengers disappeared?
- A The *Mary Celeste* was attacked by a sea creature.
  - ☒ B The *Mary Celeste* was heading for a whirlpool, so the crew jumped out.
  - C The crew of the *Mary Celeste* were taken by aliens.
  - D The *Mary Celeste* was invaded by the crew from the *Dei Gratia*.
  - E The crew left the *Mary Celeste* because of a waterspout.
8. According to the text, why is it difficult to come to a conclusion about what happened on the *Mary Celeste*?
- A There is not enough information about how well made the ship was.
  - B People won’t stop coming up with unlikely theories.
  - ☒ C A lot of evidence has been destroyed.
  - D There is no evidence from anyone who saw what happened.
  - E We have no way of knowing what the weather was like at that time.



## Term 6 Session 5

9. Which of these words is closest in meaning to "plausible" (line 5)?

- A Persuasive
- B Intriguing
- ☒ C Reasonable
- D Calculated
- E Complicated

10. The word "indicated" (line 16) could be most accurately replaced by:

- A estimated.
- ☒ B suggested.
- C recommended.
- D emphasised.
- E intensified.

11. "One of the last entries documented harsh weather conditions" (lines 9-10).  
What type of word is "documented"?

- ☒ A Verb
- B Noun
- C Adjective
- D Preposition
- E Conjunction

12. Which of the following contains an example of onomatopoeia?

- A "it was found drifting in the Atlantic Ocean"
- B "experts have tried to piece together various clues"
- C "the crew of the abandoned ship had been missing for some time"
- D "seawater had infiltrated the bottom of the ship"
- ☒ E "a whirlwind of water that whooshes across the ocean's surface"

## English – HOMEWORK Punctuation – 5MINS

4. The new aquarium in the town centre has lots of attractions sharks, penguins,

A

B

C

☒ D

N

5. dolphins, turtles, seals and even a dizzying log flume. Bharats' brother had

A

B

☒ C

D

N

6. promised to take him on saturday and Bharat was so excited he could barely wait.

A

☒ B

C

D

N

7. "It's going to be amazing," he told his friend Sam eagerly. "The seals can balance

A

B

C

D

☒ N

8. enormous beach balls on their noses and they'll even shake people's" hands!

A

B

C

☒ D

N

9. Sam, who loved marine animals almost turned green with envy. He made Bharat

A

☒ B

C

D

N

10. promise to take lots of pictures to show him at school on Monday morning.

A

☒ B

C

D

N

**Maths – SESSION**

1. It takes Amber 41 minutes to get home from work.  
She gets home at 6:08 pm. What time does Amber leave work?

Answer: 5:27

2. Eliza is selling bottles of strawberry and banana smoothie. She needs to make sure that the amount of smoothie in each bottle is 1000 ml when rounded the nearest 100 ml. Eliza's friend Arizona tells her that one of the bottles will not round to this amount. Which of these is Arizona referring to? Circle the correct option.

- A 1003 ml      C 968 ml      **E** 1055 ml  
B 1045 ml      D 955 ml

3. Mateo is thinking of a regular polygon. What is the difference between its number of lines of symmetry and its number of sides? Circle the correct option.

- A** 0  
B 2  
C 4  
D 5  
E Not enough information to know

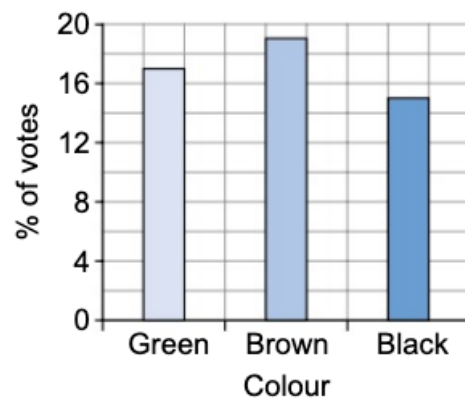
4. Betty does 30 minutes of yoga 5 times a week.  
How many minutes of yoga does she do in 8 weeks?

Answer: 1200 minutes

5. A school votes on what colour they would like their new school tie to be. The results are put in the bar chart.

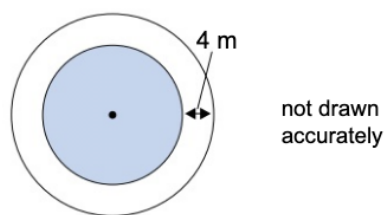
Why is the bar chart misleading?  
Circle the correct option.

- A No one would choose brown.  
B The colours aren't in order.  
**C** Not all the votes are shown on the graph.  
D The numbers go up in 4s.  
E The percentages should be on the horizontal axis.



Term 6 Session 5

6. A party planner has designed a dance floor made up of white and blue circles. Both circles have the same centre, as shown in the diagram below.



If the whole dance floor has a diameter of 30 m, what is the radius of the blue part of the dance floor?

Answer: 11 m

7. At a parents' evening, a teacher sees 20 sets of parents, each for the same amount of time, without any breaks. If the parents' evening is 2 hours 40 minutes long, how long does the teacher see each set of parents for?

Answer: 8 minutes

8. At Mr Plank's building firm, qualified builders get paid three times as much per day as apprentice builders. Mr Plank has 7 apprentice builders and altogether their wages total £210 per day. The total of the qualified builders' wages per day is £630. How many qualified builders work at the firm?

Answer: 7

9. Darren is driving and sees the sign below. It shows the distance in km to six towns that are all along the same straight road.

Arch	22
Barne	32.5
Copp	39
Drise	41.5
Erton	45.5
Flynn	50

Which two towns are the same distance from Copp? Circle the correct option.

- A** Arch and Drise      **C** Barne and Drise      **E** Arch and Flynn  
**B** Arch and Erton      **D** Barne and Erton

10. A bakery is planning to expand their business. They use the formula  $5n^2 - 3n$  to work out how many scones they aim to have sold in total by the end of each day, where  $n$  stands for the number of days since the bakery started expanding. How many scones do they aim to have sold in total by the end of the 10<sup>th</sup> day?

Answer: 470

**Maths – HOMEWORK 10MINS – GO BACK WITH NO TIMER AND CHECK**

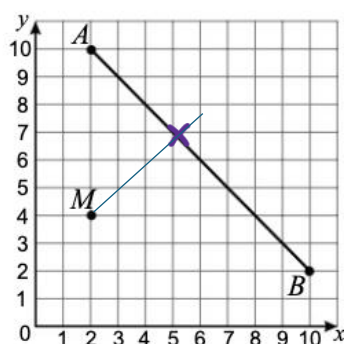
1. A chocolate bar weighs 50 grams. It contains 5 grams of fat. What percentage of the chocolate bar is fat? Circle the correct option.

**A** 10%                      **C** 5%                      **E** 45%  
**B** 1%                      **D** 0.1%

2. Laura goes to the gym every four days. Kelvin goes to the gym every five days. If they both go to the gym today, after how many days will they both go to the gym on the same day again?

Answer: 20 days

3. Alessia draws a line from point  $M$  that crosses the line  $AB$  at a  $90^\circ$  angle.



At what point does the line she draws cross  $AB$ ?

Circle the correct option.

**A** (8, 4)                      **C** (5, 7)                      **E** (6, 6)  
**B** (2, 10)                      **D** (7, 5)

4. Simon went out for a meal. His main course cost £8.95, his dessert cost £3.69 and his drink cost £1.35. He paid with a £20 note. How much change did he get?

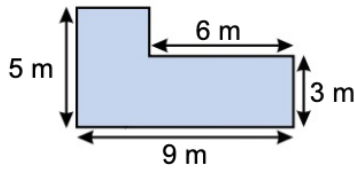
Answer: £ 6.01

5. Angela has a block of clay that weighs 15 kg. She makes clay bowls that weigh 500 g, that can each hold 300 ml of water. If no clay is wasted, how many litres of water can Angela's bowls hold in total?

Answer: 9 litres

Term 6 Session 5

6. The floor plan of a room is shown in the diagram below.



What is the area of the room? Circle the correct option.

- A 45 m<sup>2</sup>      **C 33 m<sup>2</sup>**      E 23 m<sup>2</sup>  
 B 27 m<sup>2</sup>      D 36 m<sup>2</sup>

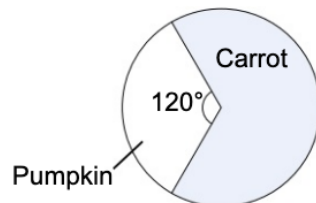
7. The time, in seconds, taken to prepare and serve a hot lunch in a factory canteen is given by the formula  $20W + 1200$ .  $W$  is the number of workers having a hot lunch. How many seconds would it take to prepare and serve a hot lunch for 20 workers?

Answer: 1600 seconds

8. Lukas bought 6 bags of dog food to share equally between 15 dogs. What fraction of 1 bag should each dog get? Circle the correct option.

- A  $\frac{2}{3}$       B  $\frac{4}{9}$       C  $\frac{3}{4}$       **D  $\frac{2}{5}$**       E  $\frac{1}{2}$

9. A class of 30 children were asked to name an orange vegetable. The results are shown in the pie chart below.



How many children said carrot?

Answer: 20

10. A builder sets up a pulley system to lift steel beams up to the top of a building. The pulley can lift a maximum of 65 kg in one go. Each beam has a mass of 7 kg. How many times will the builder need to raise the pulley to lift 100 beams? Circle the correct option.

- A 3      **B 12**      C 10      D 15      E 11