

Term 5 Session 2

Maths – Units of measure

Eve runs a race that is 5 km long.
How far did she run in metres?

Answer: 5000 m

David has cycled 900 m. How much further does he need to go to reach one km?

Answer: 100 m

How many millimetres are there in 7.9 cm?

Answer: 79 mm

A bottle holds 0.5 l of orange juice.
How many millilitres is this?

Answer: 500 ml

James buys some bags of sweets. Each bag weighs 25 g.
How many bags will he need to buy to have 1 kg of sweets?

Answer: 40

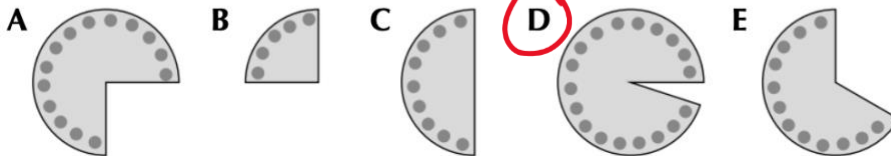
Which of these is the most likely mass of an apple? Circle the correct answer.

- A 1000 g **B 150 g** C 5 g D 1 g E 10 g

A plan has been drawn using the scale 1 cm = 50 cm.
What would be the real length of a line drawn 8 cm long on the plan in metres?

Answer: 4 m

Adam bakes a fruit cake that weighs 1 kg. He cuts away a section that weighs 50 g.
Which diagram best shows the amount of cake that would be left? Circle the correct answer.



It takes 250 ml of paint to cover 1 m² of wall.
Each tin holds 1 litre of paint. How many tins will be needed to paint a wall with a total area of 12 m²?

Answer: 3

Matt has a piece of string that is 120 mm long. Kim has a piece of string that is 0.1 m long. How much longer is Matt's piece of string than Kim's piece of string in centimetres?

Answer: 2 cm

Zeke wants to measure the volume of milk he puts on his cereal.
What would be the most sensible units to use?

Answer: ml

Anita has a 0.5 kg bar of chocolate. If she eats 10 g of it, how many grams of chocolate does she have left?

Answer: 490 g

A glass holds 250 ml. How many glassfuls could you pour from a 1½ litre bottle of lemonade?

Answer: 6

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Which of these is equal to 1500? Circle the correct answer.

- A The number of millilitres in 15 litres.
- B The number of millimetres in 150 centimetres.
- C The number of metres in 0.15 kilometres.
- D The number of grams in 150 kilograms.
- E The number of centimetres in 1.5 metres.

A plan has been drawn using the scale 1 cm = 50 cm.
What would be the real length of a line drawn
8 cm long on the plan in metres?

Answer: 4 m

The total mass of a luggage case and its contents is 10 kg. The empty case has a mass of 1500 g.
What is the mass of the contents in kilograms?

- a) 8.5 kg
- b) 8.75 kg
- c) 9.5 kg
- d) 11.5 kg
- e) 9.85 kg

Jamal pours 1 litre of lemonade and 450 ml of juice into a jug.
What is the total volume of liquid in the jug?

- a) 1450 ml
- b) 0.145 ml
- c) 14 500 ml
- d) 1.45 ml
- e) 145 ml

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The height of a house is 5.7 m.

How many centimetres is this?

- a) 5.7 cm
- b) 570 cm
- c) 57 cm
- d) 57 000 cm
- e) 5700 cm

John has a mass of 80 kg.

How many grams is this?

Lola has a piece of paper that is 594 mm long.

What is this in metres?

- a) 59.4 m
- b) 0.594 m
- c) 5.94 m
- d) 0.0594 m
- e) 5.094 m

- a) 800 g
- b) 8000 g
- c) 8 g
- d) 80 000 g
- e) 80 g

Maaya has a box that contains 3 kg of cereal. She eats 40 g of cereal each day.

How many days will the box of cereal last Maaya?

- a) 100
- b) 70
- c) 750
- d) 75
- e) 50

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Verbal Reasoning - Riddle

Sophie, Karl, Daisy, Josh and Abbie are talking about their houses. Sophie lives in a house with three bedrooms. Karl and Daisy both live in houses with more bedrooms than Sophie's. Abbie's house doesn't have a garden. Josh's house has half as many bedrooms as Karl's.

If these statements are true, only one of these sentences below **cannot** be true. Which one?

- A Daisy lives in a house with four bedrooms.
- B Abbie's house is semi-detached.
- C Karl's house has five bedrooms.
- D Daisy's house is bigger than Abbie's.
- E Josh has his own bedroom.

/ 1

Laura, Georgia, Rohan and Jamie were all born in August. Georgia was born before Laura, but after Jamie. Rohan was born after Jamie.

If these statements are true, only one of these sentences below **must** be true. Which one?

- A Laura is older than Georgia.
- B Georgia was born on the same day as Rohan.
- C Jamie was born after Georgia.
- D Laura is older than Rohan.
- E Jamie is the oldest.

Kalani, Elijah, Rob, Louise and Benjamin are all planting trees in a garden. Kalani plants three trees. Elijah plants the most trees. Louise plants more trees than Rob but fewer than Kalani. Benjamin plants twice as many trees as Kalani does. Rob only plants one tree.

Which of the sentences below **cannot** be true?

R L K-3 E
D-6

- Kalani plants more trees than Rob.
- Benjamin plants the second most trees.
- Elijah plants seven trees.
- Louise plants three trees.
- Rob plants the fewest trees.

Fiona, Devi, Kwame, Heather and Tom are all having ice cream. Each child is only allowed two scoops of ice cream. Kwame and Tom both have a scoop of strawberry ice cream. Everyone has a scoop of vanilla ice cream. Two children have a scoop of chocolate ice cream. Fiona has one scoop of bubblegum ice cream.

- Heather has a scoop of chocolate ice cream.
- Fiona is the only one who has bubblegum ice cream.
- Devi has two different flavours of ice cream.
- Kwame and Tom have the same flavours of ice cream.
- Tom has a scoop of chocolate ice cream.

K T F D H
S S b c c
✓ ✓

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Rasheed, Jen, Tao and Lewis are all going shopping. Jen only goes to the bookshop and the bakery. Lewis and Rasheed go to the supermarket together. Lewis is the only person who goes to the video game shop. Tao and Jen go to the same number of shops. Rasheed goes to fewer shops than Tao.

Which of the sentences below **must** be true?

- Tao goes to the fewest shops.
- Jen's favourite shop is the bookshop.
- Lewis goes to the most shops.
- Rasheed only goes to one shop.
- Lewis goes to more shops than Jen.

Spatial Reasoning – Folding along a line

1. Which shape (a to d) **can't** be made by folding the shape on the left once?

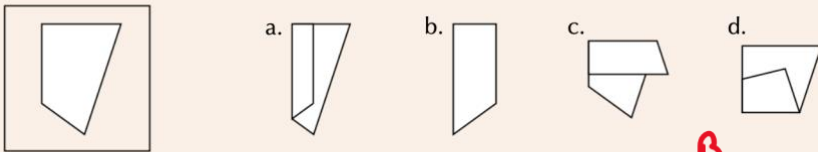


Figure: **B**

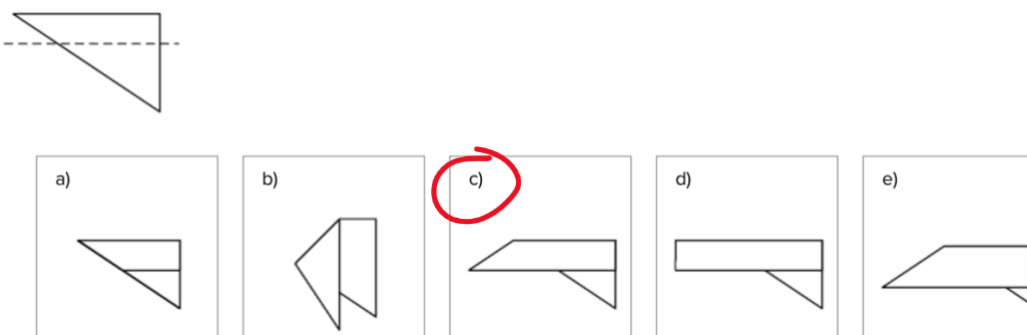
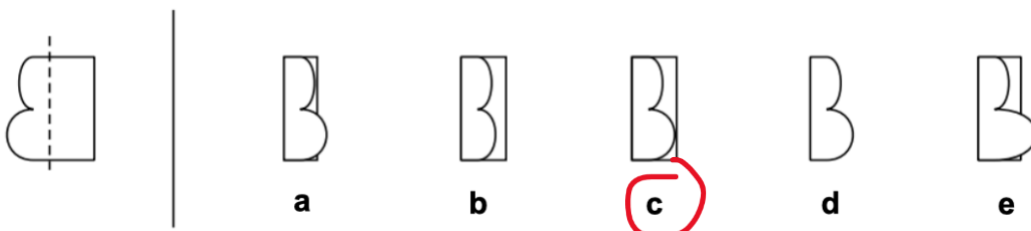
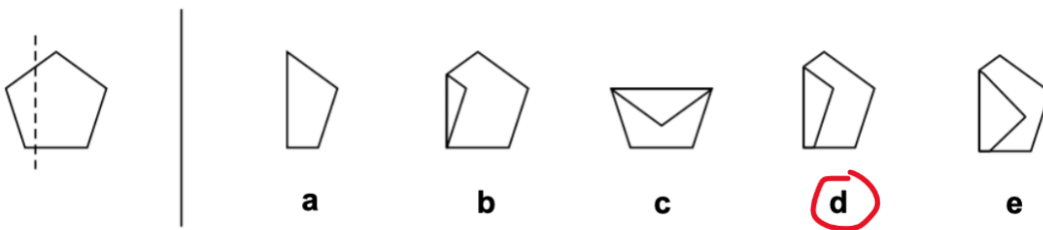
2. The first figure is folded to make the second figure. Give the smallest number of folds that this can be done in.



Number of folds:



Number of folds: **3**



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a)



b)



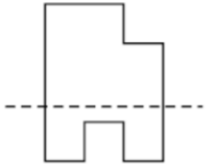
c)



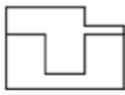
d)



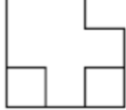
e)



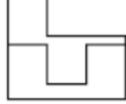
a)



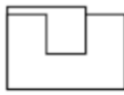
b)



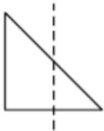
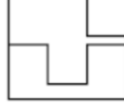
c)



d)



e)



a)



b)



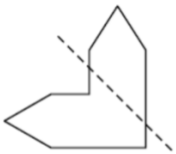
c)



d)



e)



a)



b)



c)



d)



e)



a)



b)



c)



d)



e)



Vocabulary Practice – Write in your book

1. Write the definition
2. Write word class (adjective, verb, noun)
3. Write it in a sentence
4. Write a synonym and antonym for it

1. discern 2. ingenious 3. resourceful 4. scholar 5. Visionary

Reading Comprehension

An adapted extract from ‘The Fairies’ Dancing Place’

Lanty had taken a bit of a farm, about six acres, but as there was no house on it, he resolved to build one. So that it might be as comfortable as possible, he selected for the site of it one of those beautiful green circles that are supposed to be the playground of the fairies. Lanty was warned against this, but as he was a
5 headstrong man, he said he would not change such a pleasant situation for his house to oblige all the fairies in Europe. He accordingly proceeded with the building, which he finished off very neatly.

It is usual on these occasions to give one’s neighbours and friends a house-warming, and he chose to comply with this good and pleasant old custom.
10 Lanty, having brought home his wife in the course of the day, got a fiddler* and gave those who had come to see him a dance in the evening. The fun and hilarity were proceeding briskly, when a noise was heard after night had set in, like a crushing and straining of ribs and rafters on the top of the house. The folks assembled all listened, and, without doubt, there was nothing heard but crushing,
15 and heaving, and pushing, and groaning, and panting, as if a thousand little men were engaged in pulling down the roof.

“Come,” said a voice which spoke in a tone of command, “work hard: you know we must have Lanty’s house down before midnight.”

This was an unwelcome piece of intelligence to Lanty, who walked out and
20 addressed them as follows:

“Gentlemen, I humbly ask yer pardon for buildin’ on any place belongin’ to you, but if you’ll have the courtesy to let me alone this night, I’ll begin to pull down and remove the house tomorrow morning.”

This was followed by a noise like the clapping of a thousand tiny little hands.
25 After a hearty little shout of triumphant joy, there was a brisk rushing noise, and they were heard no more.

* fiddler — a person who plays the fiddle

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1. Which of the following statements is true?
 - A There was already a house on Lanty's land when he bought it.
 - B Lanty's land isn't big enough for building a house.
 - C Lanty thinks carefully about where to put his house.
 - D Lanty needs space for all of his farm animals.
 - E Lanty has drawn a circle around the spot where he wants to build a house.

2. Why is Lanty warned against building his house at his chosen location?
 - A Fairies use the land Lanty wants to build on.
 - B The ground is unstable.
 - C It isn't a very pleasant place to build a house.
 - D The land doesn't belong to Lanty.
 - E The house would be very difficult to build there.

3. "he would not change such a pleasant situation for his house to oblige all the fairies in Europe" (lines 5-6). This means that:
 - A Lanty would move elsewhere in Europe if he found somewhere nice.
 - B Lanty doesn't believe that any fairies will cause him a problem.
 - C Lanty wouldn't move his house even if many fairies wanted him to.
 - D Lanty hopes the fairies will find him somewhere better to live.
 - E Lanty wants to annoy all the fairies in Europe.

4. According to the text, why does Lanty decide to throw a house-warming?
 - A His friends and neighbours asked him to.
 - B He wants to introduce his new wife to his friends.
 - C He loves dancing.
 - D He wants to follow tradition.
 - E He wants to show off the new house he has built.

5. Which of these statements is false?
 - A People seem to be bored at the party.
 - B A strange noise begins after the sun sets.
 - C The people at the party stop to listen to the noise.
 - D The fairies want to take Lanty's house down before twelve.
 - E The fairies cause the noise which interrupts the party.

6. "This was an unwelcome piece of intelligence to Lanty" (line 19). What does this suggest?
 - A Lanty doesn't want to welcome the fairies into his home.
 - B Lanty is unhappy about what he has heard.
 - C Lanty isn't very intelligent.
 - D Lanty doesn't understand what the fairies are trying to do.
 - E Lanty feels that the fairies aren't being very welcoming to him.



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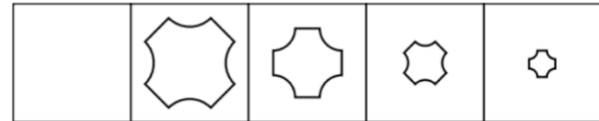
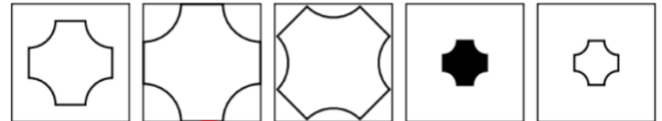
7. What agreement does Lanty make with the fairies?
- A He will share the house with them.
 - B He will help them pull the house down right away.
 - C He will help them find somewhere else to live instead.
 - D He will leave the house once he finds somewhere else to live.
 - E** He will take the house down the next day if he can keep it for the night.
8. Which of these adjectives best describes how the fairies are feeling after they make their agreement with Lanty?
- A Impatient
 - B Proud
 - C Relieved
 - D** Victorious
 - E Guilty
9. Which of these is closest in meaning to “headstrong” (line 5)?
- A Powerful
 - B Clever
 - C Ignorant
 - D** Stubborn
 - E Rude
10. The word “engaged” (line 16) could be most accurately replaced by:
- A justified.
 - B** occupied.
 - C uninterrupted.
 - D distracted.
 - E needed.
11. “He accordingly proceeded with the building” (lines 6-7).
The word “accordingly” is an example of what kind of word?
- A Verb
 - B Noun
 - C Preposition
 - D** Adverb
 - E Adjective
12. “who walked out and addressed them as follows” (lines 19-20).
What type of word is “addressed”?
- A Adverb
 - B Conjunction
 - C Noun
 - D Adjective
 - E** Verb



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Non-Verbal Recap


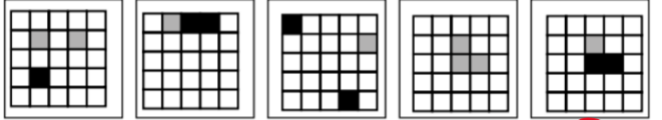
Complete the sequence

1.  

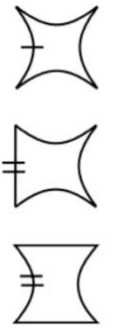
2.  


3.  


4.  


5.  

Vertical Codes





6.  PX
 QY
 RY
 GU





7.  HU
 HV


 PY QX QY RX RY
 a b c d e

 GU GV HU HV HT
 a b c d e

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8.  AG
 BG
 CG
 BH

9.  SLI
 TMJ
 TNI
 SNK

 AG AH BG CG CH
a b c d e


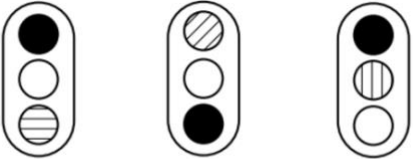

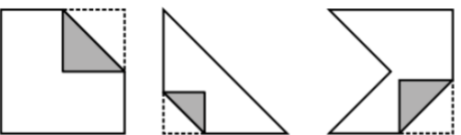
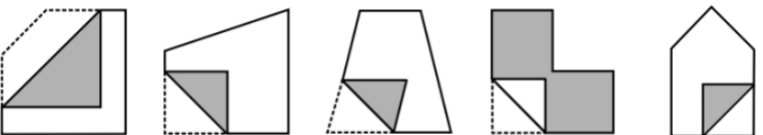

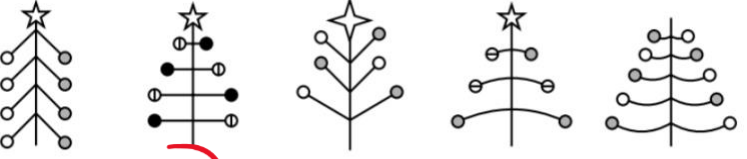
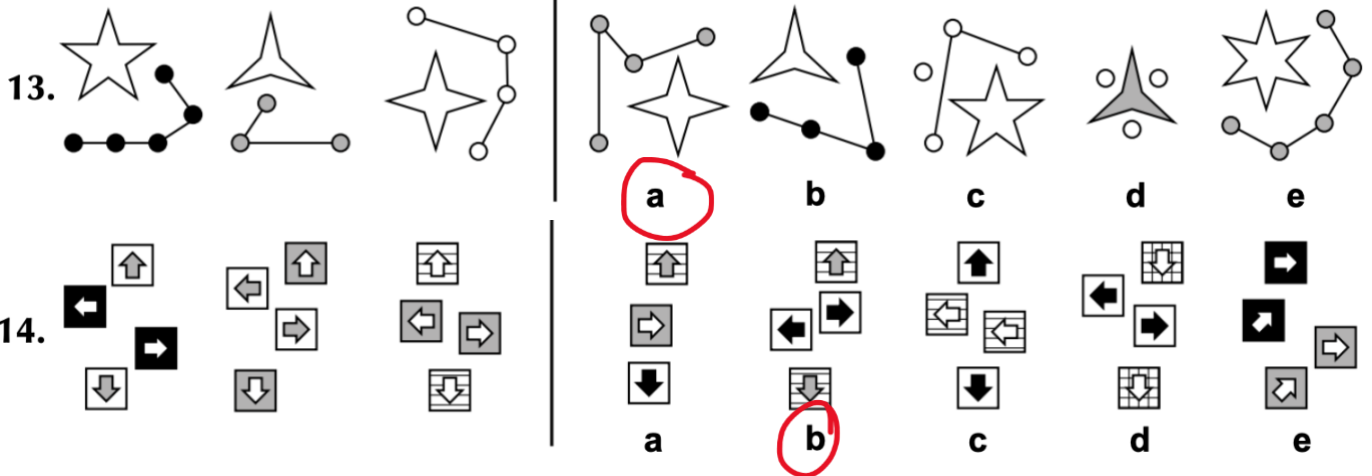
 SMI SNJ TNK TLI SLJ
a b c d e

Figure like the first three

10.  
a b c d e

11.  
a b c d e

12.  
a b c d e



Verbal Recap

Find the word that completes the third pair of words so that it follows the same pattern as the first two pairs. Write your answer on the line.

Example: boat oat chip hip land (and)

- | | | | |
|----------------|---------------|----------|-------|
| 1. spied pried | spawns prawns | stain (| Train |
| 2. feared are | deputy put | beater (| Ate |
| 3. earth hare | lair sail | meant (| Team |
| 4. handle land | forest sore | ramble (| lamb |

Find the missing number to complete each sum. Write your answer on the line.

Example: $7 + 5 = 24 \div (\underline{2})$

5. $32 - 8 = (\underline{24})$
6. $16 + 9 = 29 - (\underline{4})$
7. $10 \times 2 - 17 = (\underline{3})$
8. $3 \times 10 + 12 = 44 - (\underline{2})$

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

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

9. (cheap free boastful) (ordered modest decided)
10. (fateful unlucky fortunate) (blessed regret sorrow)
11. (single wedding date) (alone multiple relationship)
12. (freeze dissolve ice) (thaw chop chill)

Read the information carefully, then use it to answer the question that follows.

13. Ola, Kevin, Raheem, Mo and Riya are discussing the genres of book they read. Ola, Raheem and Riya read science-fiction books, but Kevin and Mo read fantasy ones. Raheem also reads fantasy books. Ola and Mo read history books. Mo, Riya and Ola read mystery books. Everyone except Ola reads horror books. If the statements above are true, only one of the sentences below **must** be true. Which one? Circle the correct letter.
- A Kevin prefers reading horror books to fantasy books.
 - B Mo reads fewer genres of book than Riya.
 - C Ola thinks horror books are too scary.
 - D Mo reads more genres of book than the others.
 - E The most popular genre of book is fantasy.
14. Aaron, Benji, Christy, Li and Eliza are all catching flights to go on holiday. Aaron's flight leaves at 3:40 pm. Christy's flight leaves 10 minutes after Aaron's. Li's flight leaves 20 minutes after Christy's flight. Eliza's flight leaves 30 minutes before Benji's. If the statements above are true, only one of the sentences below **must** be true. Which one? Circle the correct letter.
- A Christy's flight leaves at 4:00 pm.
 - B Li's flight leaves at 4:20 pm.
 - C Aaron's flight leaves half an hour before Li's.
 - D Aaron and Eliza fly at the same time.
 - E Eliza flies at 4:50 pm.