

CEM Select Mock Paper 1



First Name:

Last Name:

Primary School:

Date of Birth:

Today's Date:

This paper includes 6 modules:

- Comprehension
- Anagrams
- Missing Words
- Related Words
- General Maths
- Pictures

You will have 1 hour to answer all the questions in this paper.

DO NOT OPEN THIS PAPER UNTIL INSTRUCTED TO DO SO.

11 Plus CEM Select

Read the instructions carefully.

1. This is a mix of multiple-choice and standard format questions.
2. Read the instructions at the start of each module carefully.
3. You may find some of the questions difficult. If you cannot do a question, do not waste time on it, but go on to the next questions. If you are not sure of an answer, choose the one you think is best.
4. Work as quickly and as carefully as you can.
5. Make sure you can see a clock.

Read the extract from *Treasure Island* and answer the questions that follow.

The appearance of the island when I came on deck next morning was altogether changed. Although the breeze had now utterly ceased, we had made a great deal of way during the night and were now lying becalmed about half a mile to the south-east of the low eastern coast. Grey-coloured woods covered a large part of the surface. This
5 even tint was indeed broken up by streaks of yellow sand-break in the lower lands, and by many tall trees of the pine family, out-topping the others—some singly, some in clumps; but the general colouring was uniform and sad. The hills ran up clear above the vegetation in spires of naked rock. All were strangely shaped, and the Spy-glass, which was by three or four hundred feet the tallest on the island, was likewise the strangest in
10 configuration, running up sheer from almost every side and then suddenly cut off at the top like a pedestal to put a statue on.

The Hispaniola was rolling scuppers under in the ocean swell. The booms were tearing at the blocks, the rudder was banging to and fro, and the whole ship creaking, groaning, and jumping like a manufactory. I had to cling tight to the backstay, and the world turned
15 giddily before my eyes, for though I was a good enough sailor when there was way on, this standing still and being rolled about like a bottle was a thing I never learned to stand without a qualm or so, above all in the morning, on an empty stomach.

Perhaps it was this—perhaps it was the look of the island, with its grey, melancholy woods, and wild stone spires, and the surf that we could both see and hear foaming and
20 thundering on the steep beach—at least, although the sun shone bright and hot, and the shore birds were fishing and crying all around us, and you would have thought anyone would have been glad to get to land after being so long at sea, my heart sank, as the saying is, into my boots; and from the first look onward, I hated the very thought of Treasure Island.

25 We had a dreary morning's work before us, for there was no sign of any wind, and the boats had to be got out and manned, and the ship warped three or four miles round the corner of the island and up the narrow passage to the haven behind Skeleton Island. I volunteered for one of the boats, where I had, of course, no business. The heat was sweltering, and the men grumbled fiercely over their work. Anderson was in command of
30 my boat, and instead of keeping the crew in order, he grumbled as loud as the worst. "Well," he said with an oath, "it's not forever."

I thought this was a very bad sign, for up to that day the men had gone briskly and willingly about their business; but the very sight of the island had relaxed the cords of discipline.

35 All the way in, Long John stood by the steersman and conned the ship. He knew the passage like the palm of his hand, and though the man in the chains got everywhere more water than was down in the chart, John never hesitated once.

"There's a strong scour with the ebb," he said, "and this here passage has been dug out, in a manner of speaking, with a spade."

40 We brought up just where the anchor was in the chart, about a third of a mile from each shore, the mainland on one side and Skeleton Island on the other. The bottom was clean sand. The plunge of our anchor sent up clouds of birds wheeling and crying over the woods, but in less than a minute they were down again and all was once more silent. The place was entirely land-locked, buried in woods, the trees coming right down to

45 high-water mark, the shores mostly flat, and the hilltops standing round at a distance in a sort of amphitheatre, one here, one there. Two little rivers, or rather two swamps, emptied out into this pond, as you might call it; and the foliage round that part of the shore had a kind of poisonous brightness. From the ship we could see nothing of the house or stockade, for they were quite buried among trees; and if it had not been for the chart

50 on the companion, we might have been the first that had ever anchored there since the island arose out of the seas.

There was not a breath of air moving, nor a sound but that of the surf booming half a mile away along the beaches and against the rocks outside. A peculiar stagnant smell hung over the anchorage—a smell of sodden leaves and rotting tree trunks. I observed the

55 doctor sniffing and sniffing, like someone tasting a bad egg.

"I don't know about treasure," he said, "but I'll stake my wig there's fever here."

Module 1 – Circle the correct answer.

1. What is the position of the ship when Jim came on deck the next morning?
 - A Anchored near the western coast.
 - B About half a mile to the south-east of the low eastern coast.
 - C Sailing swiftly along the northern shore.
 - D Moored beside a sandy beach.
2. Choose a synonym for the word '**becalmed**', in the context of the passage? (Line 3)
 - A anchored
 - B stranded
 - C motionless
 - D damaged
3. What natural features broke up the uniform grey of the island's woods? (Line 4)
 - A Lakes and rivers
 - B Streaks of yellow sand and tall pine trees
 - C Fields of wildflowers
 - D Snow-capped mountains
4. What does the phrase 'spires of naked rock' suggest about the hills? (Line 7–8)
 - A They are covered in thick vegetation.
 - B They are smooth and rounded.
 - C They are tall, pointed, and bare.
 - D They are made of soft soil.
5. What is described in the extract as 'running up sheer from almost every side and then suddenly cut off at the top like a pedestal to put a statue on'? (Lines 10–11)
 - A The grey-coloured woods
 - B The yellow sand-breaks
 - C The tall pine trees
 - D The Spy-glass hill

6. Select the TWO most accurate words to describe the narrator's first impression of the island.
- A anxious
 - B indifferent
 - C fearful
 - D disappointed
7. What is the quote below an example of?
'being rolled about like a bottle' (Line 16)
- A alliteration
 - B simile
 - C personification
 - D metaphor
8. What was the crew's task in the morning?
- A Exploring the island and starting a fire.
 - B Repairing the ship and replenishing stock.
 - C Mapping the coastline.
 - D Boats manned and the ship warped.
9. Why do you think Jim volunteered for one of the boats, even though he had no business there?
- A He felt uneasy and preferred activity over idleness.
 - B He wanted to prove his bravery.
 - C He was eager to explore the island.
 - D He was trying to avoid a particular person.
10. Who was in command of the boat the author worked on?
- A The captain
 - B The steersman
 - C Anderson
 - D John

11. What does the word '**conned**' mean in the context:
'Long John stood by the steersman and conned the ship'?
- A deceived
 - B navigated
 - C repaired
 - D cleaned
12. What action does the plunge of the anchor cause?
- A The birds to fly up over the woods.
 - B Clouds of sand to engulf the boat.
 - C It turns the rivers into swamps.
 - D It buries the house amongst the trees.
13. What do you think is meant by, '**the foliage round that part of the shore had a kind of poisonous brightness**'?
- A The vegetation appeared unusually vibrant, almost suggesting it might be toxic or dangerous.
 - B The plants were emitting a bright light, indicating the presence of bioluminescence.
 - C The leaves had a metallic sheen, implying they were covered in a harmful substance.
 - D The plants were wilting and discoloured, showing signs of being poisoned.
14. Choose an antonym for the word '**stagnant**'
- A flowing
 - B frozen
 - C still
 - D rapid
15. What observation did the doctor make about the anchorage?
- A He believed it was an ideal spot for treasure hunting.
 - B He suspected the area might be prone to fever.
 - C He thought the water was too shallow for anchoring.
 - D He felt the anchorage was well protected from storms.

16. How does the crew's attitude change upon sighting the island?
- A They become more disciplined.
 - B They grow increasingly discontented.
 - C They are eager to explore.
 - D They become fearful.
17. Select the most accurate word to describe the tone of the text.
- A Persuasive
 - B Informative
 - C Entertaining
 - D Objective
18. What is the primary purpose of this extract?
- A To describe the daily life of sailors at sea.
 - B To provide a detailed and suspenseful description of the island and anchorage.
 - C To explain how to navigate a ship through dangerous waters.
 - D To warn the crew about the dangers of treasure hunting.
19. How does the author create a sense of unease about the island?
- A By using bright and cheerful imagery to mislead the reader.
 - B By having the characters express excitement about exploring.
 - C By using sensory details such as eerie silence, stagnant smells, and poisonous brightness.
 - D By focusing only on the dangerous animals in the jungle.
20. What overall theme is reinforced by the doctor's final statement?
- A What overall theme is reinforced by the doctor's final statement?
 - B The warning that humans are not meant to explore unknown lands.
 - C The importance of trusting an experienced sailor like Long John Silver.
 - D The contrast between expectation and reality – what seems exciting can turn out to be dangerous.

Module 2 – Anagrams

Each question contains a sentence. The letters in one of the words in the sentence are jumbled up. This word is in bold. Write the correct word on the line provided.

1. The farmer keeps his **stoag** in the barn for winter.

2. The chef added a pinch of **flas** to enhance the flavour of the dish.

3. The hiker followed the **taph** through the forest.

4. My grandmother made a delicious pies for **sestedr**.

5. The ship set sail on the **naeco** towards a distant island.

6. The astronaut gazed at the beautiful **atsrs** in space.

7. A regent of birds flew across the **seutsn** sky.

8. The knights rode their **rosesh** into battle.

9. The artist used a **astbpriunh** to create the masterpiece.

10. The baker placed the dough in the **neov** to bake.

11. The detective examined the **eevcdeni** for clues.

12. The pirates searched for **reauetsr** buried deep underground.

13. The scientist mixed the chemicals in the **loyrraabto**.

14. The farmer harvested the **oeaptos** from the field.

15. The ancient **riapmyd** stood tall in the desert.

16. The explorer used a **mocpsas** to navigate through the dense jungle.

17. The artist blended different shades on the **asnvac** to create depth.

18. The historian studied ancient **sriscstupre** to learn about past civilisations.

19. The professor gave a fascinating lecture on conservation **spisece** in the rainforest.

20. The villagers gathered at the fountain to **oltcelc** water.

21. The earthquake caused **dgaema** to the old town.

Module 3 – Missing Words

You will be shown two passages. Some of the words in these passages are incomplete, with only the first few letters of the word provided. Write in the **next two letters** of the word. You do not need to complete the whole word. Both passages have 12 missing words.

The Amazon Rainforest is one of the most biodiverse regions on **Ea**_____, home to an estimated 10 million **sp**_____ of animals, plants, and micro-organisms. Covering over 5.5 million square kilometres, it is located primarily in Brazil and extends into several other South American **co**_____.

The rainforest is often called the '**lu**_____ of the Earth' because it produces a significant percentage of the world's **ox**_____. The Amazon River, the second-longest river in the world, flows through the rainforest, **pro**_____ water to millions of species. It stretches over 6,500 kilometres and is home to **uni**_____ wildlife, such as the pink river dolphin and the fearsome piranha.

Unfortunately, **defo**_____ has become a major issue, with vast areas being cleared for agriculture and urban development. Scientists **wa**_____ that the loss of the rainforest could have serious **con**_____ for global climate and biodiversity. Deforestation leads to **ha**_____ loss, pushing many species towards extinction and reducing the planet's ability to absorb carbon **di**_____. Conservation efforts are underway, but enforcement remains a challenge in many regions.

Our solar **sy**_____ consists of the Sun and numerous celestial bodies, including planets, moons, asteroids, and **com**_____. The Sun, a massive ball of gas, provides **en**_____ that sustains life on Earth. Without it, life as we know it would be **im**_____.

The solar system is divided into two main regions: the inner solar system, which contains Mercury, Venus, Earth and Mars, and the outer solar system, which contains Jupiter, Saturn, Uranus and Neptune. The inner planets are smaller and rocky, while the outer planets, known as gas **gi**_____, are much larger and composed mostly of hydrogen and helium.

Between Mars and Jupiter lies the Asteroid Belt, a region filled with rocky debris.

Beyond Neptune, in an icy **ex**_____ called the Kuiper Belt, lies Pluto, which was reclassified as a **dw**_____ planet in 2006. Scientists continue to **ex**_____ space, searching for new worlds beyond our solar system and understanding our place in the **uni**_____.

The Sun's influence extends far beyond Pluto, reaching the heliosphere, a bubble-like region where the solar wind meets interstellar **sp**_____. Beyond our solar system, thousands of exoplanets – planets orbiting other stars – have been **dis**_____, and scientists are investigating whether any of them could **sup**_____ life.

Module 4 – Related Words

Each question contains two words. These two words are synonyms. Some letters are missing from the second word. You must complete the second word on the line provided.

1. angry fu_____
2. confused bew_____
3. demand ins_____
4. gather ass_____
5. brief con_____
6. lazy indo_____
7. miserable desp_____
8. examine scu_____
9. trust re_____
10. conceal hi_____
11. persuade co_____
12. destroy dem_____
13. worry fr_____
14. amiable fri_____
15. cure rem_____
16. moody sul_____
17. hesitate wa_____
18. calm ser_____
19. diminutive ti_____
20. explain cla_____
21. start com_____

Module 5 – General Maths

Write your answer to each question on the line provided.

1. Fill in the missing numbers to make the equations correct. Fractions should be given in their simplest form.
 - a. $5263 + 174 = \underline{\hspace{2cm}}$
 - b. $\underline{\hspace{2cm}} - 639 = 6,576$
 - c. $672 \div \underline{\hspace{2cm}} = 112$
 - d. $\frac{4}{7} + \underline{\hspace{2cm}} = \frac{34}{35}$
 - e. $\underline{\hspace{2cm}} - 1\frac{5}{6} = 7\frac{5}{6}$
2. There are 100 centimetres in a metre and 1,000 metres in a kilometre. How many centimetres are there in 3.2 kilometres?

3. A square has a side length of 9m. What is its area in cm^2 ?

4. A mobile phone contract costs £13.50 each month, plus an additional monthly charge of £3 for extra data. What is the total cost over the year?

5. Miss Miller's class recorded the number of each type of bird they saw from the classroom window.

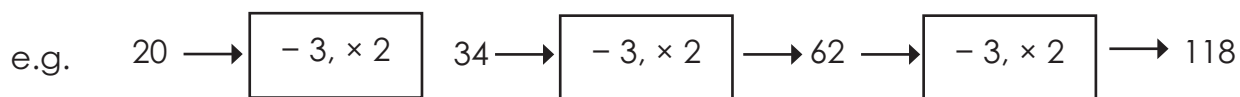
Pigeon	Wren	Sparrow	Blackbird
32	3	8	7

What percentage of the birds were pigeons?

6. I think of a number. 6% of my number is 18. What number am I thinking of?

7. Axel buys 3 notebooks at £1.20 each and 2 pens at £0.80 each. How much change will he get from £10?

8. The rule for getting from one number in a sequence to subtract 3 and then multiply by 2.



Which gives a sequence of 20, 34, 62, 118, ...

- a. If the first number in the sequence is 50, find the third number.

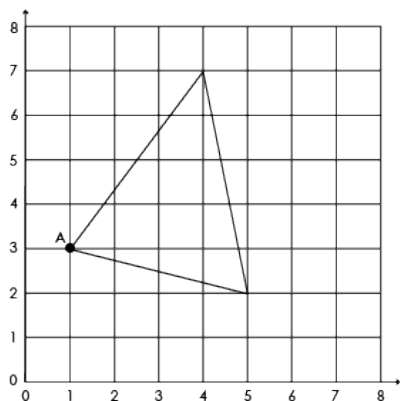
- b. If the first number in the sequence is 12, find the fourth number.

- c. If the second number in the sequence is 30, what is the fifth number?

- d. If the third number in the sequence is 80, find the first number.

9. What is the value of p in $3p^2 = 108$?

10.



- a. What are the coordinates of point A?

- b. The triangle on the grid below has been translated 2 squares left and 3 squares down. What were the original coordinates of point A?

- c. If the triangle on the grid is translated 4 squares right and 2 squares up, what are the new coordinates of point A?

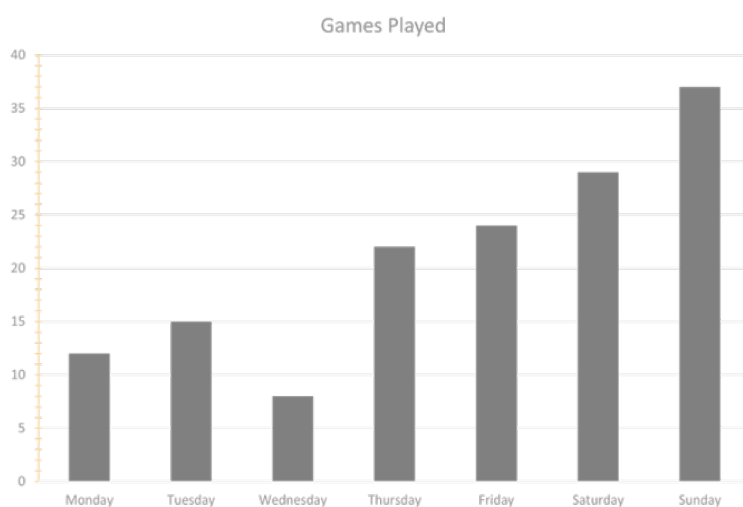
11. For these statements, say whether they are true or false.
- a. If we know that a number X rounded to the nearest 10 is 50, then $4X$ rounded to the nearest 10 must be 200.

- b. If we know that a number Y rounded to the nearest 100 is 800, then $2Y$ rounded to the nearest 100 must be 1600.

- c. If we know that a number Z rounded to the nearest 1,000 is 4,000, then $3Z$ rounded to the nearest 1,000 must be 12,000.

12. A planet rotates around a star in orbit once every 10 hours. How many orbits does the planet complete in two weeks?

13. The graph below shows the number of basketball games played at a leisure centre over a week.



- a. What was the total number of games at the weekend?

- b. What is the range between the numbers of games played across the week?

- c. What was the mean number of games played per day?

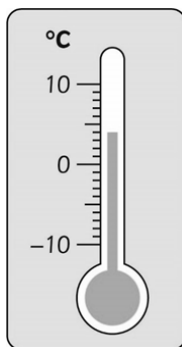
- 14.** Joao runs a restaurant. The first customer buys a biscuit, a banana and a bottle of water for £4. The second customer buys 2 bottles of water, a banana and a biscuit for £6. The third customer buys 2 biscuits, a banana and a bottle of water for £5.50.

a. How much does a biscuit cost?

b. How much does a banana cost?

c. How much does a bottle of water cost?

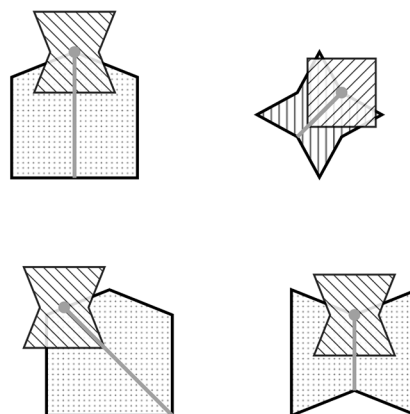
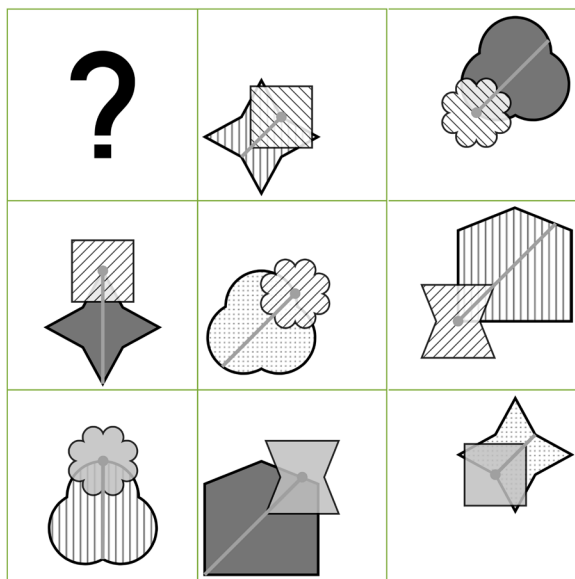
- 15.** Amy took the temperature at 10am as seen on this thermometer. 13 hours later the temperature had reduced by 7 degrees. What was the temperature then?



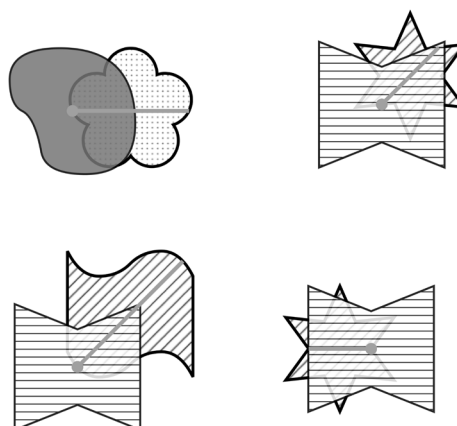
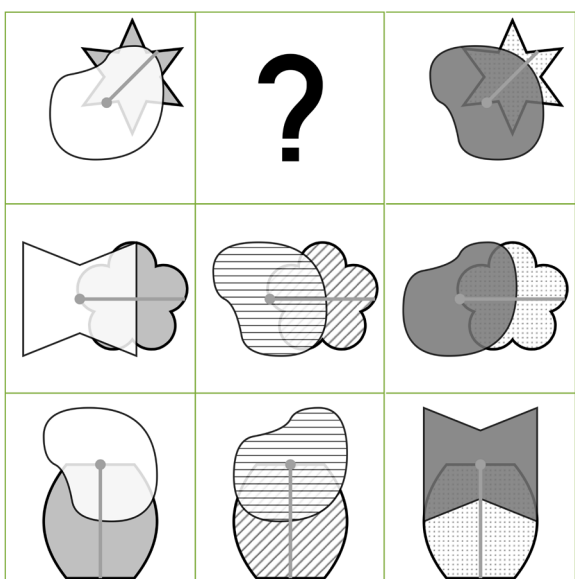
Module 6 – Pictures

Each question contains a set of nine pictures. One of these pictures is missing, shown by a question mark. You must choose the picture that completes the set correctly from the four options on the right. Circle your chosen answer.

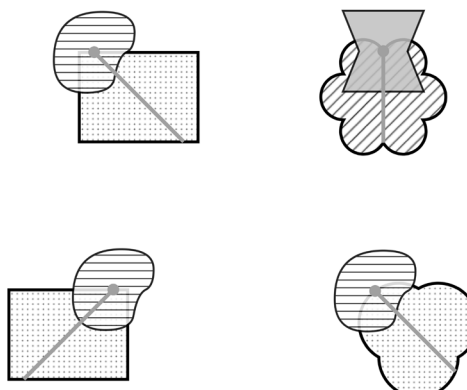
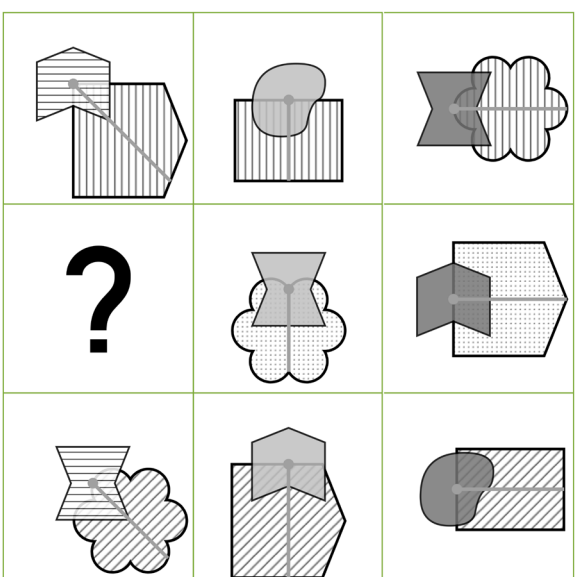
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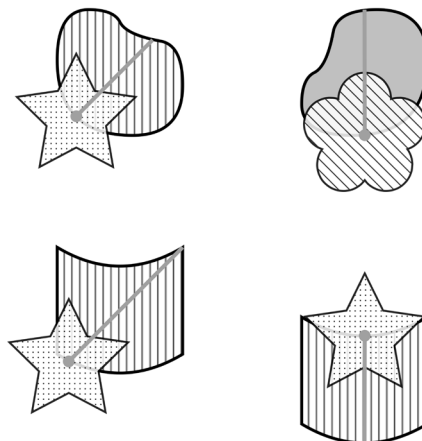
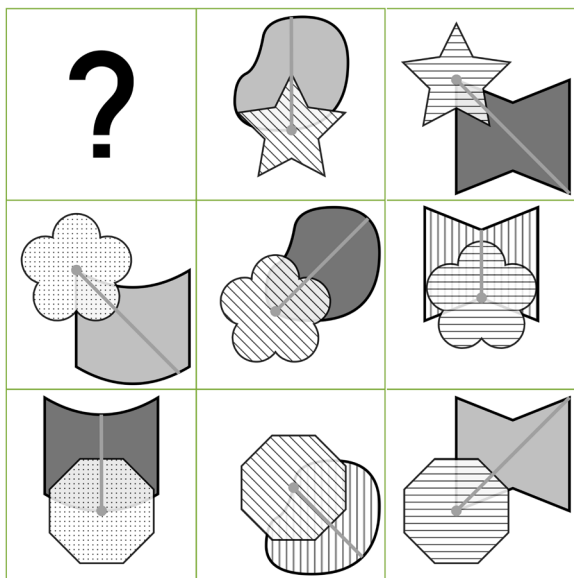
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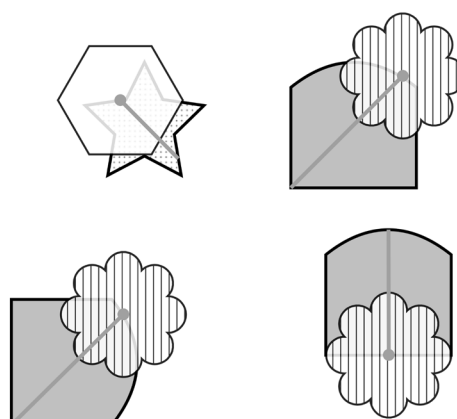
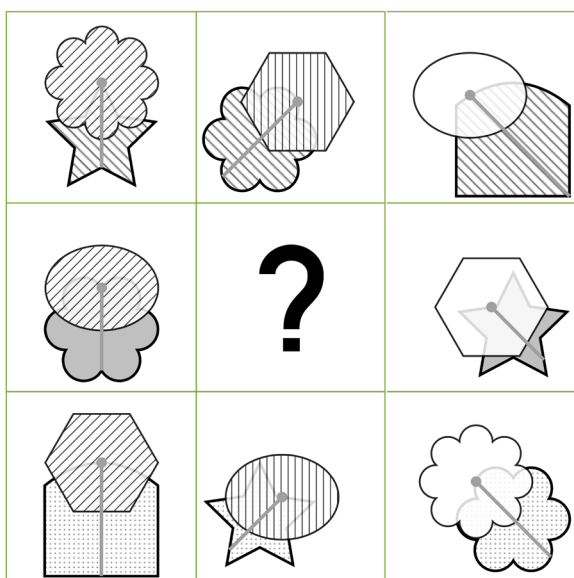
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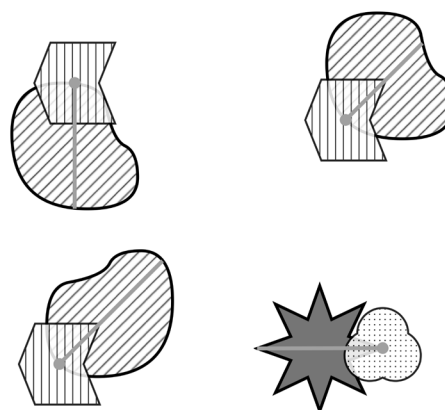
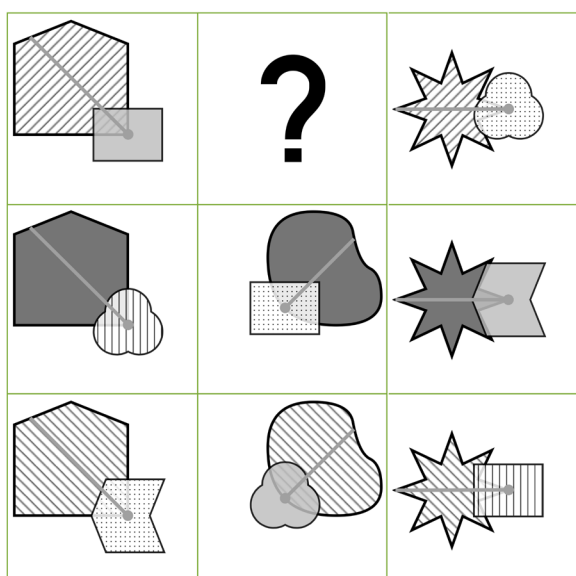
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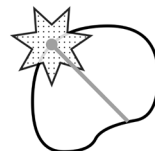
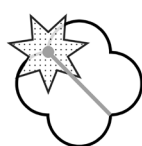
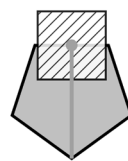
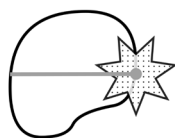
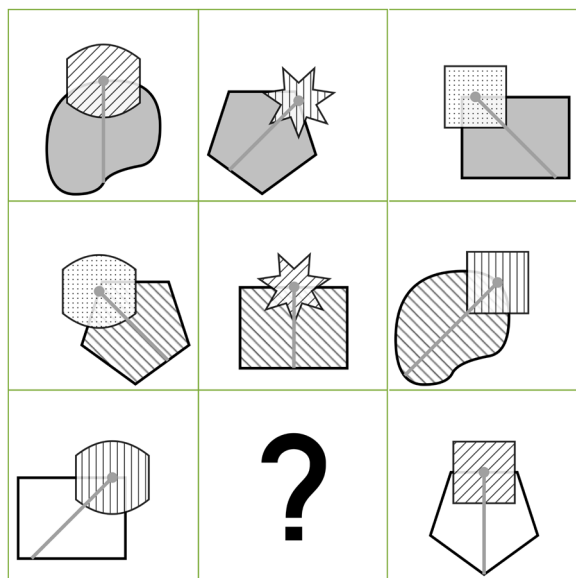
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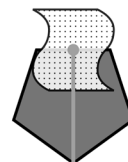
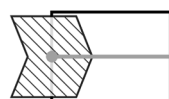
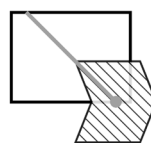
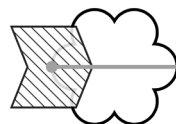
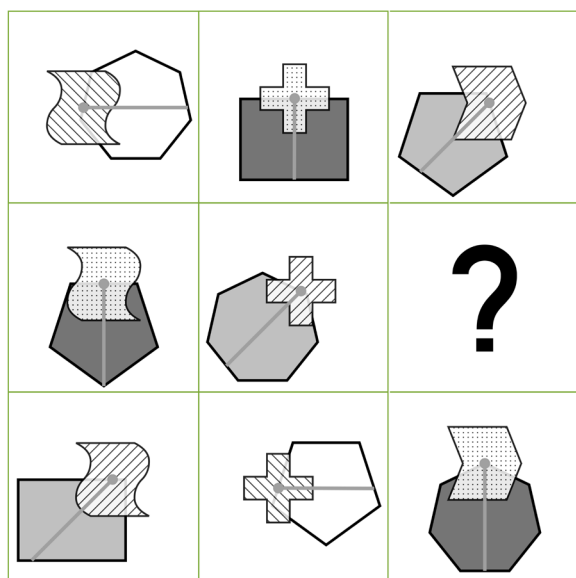
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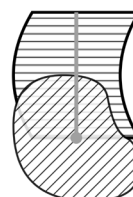
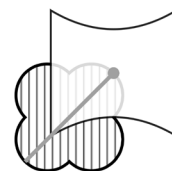
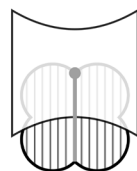
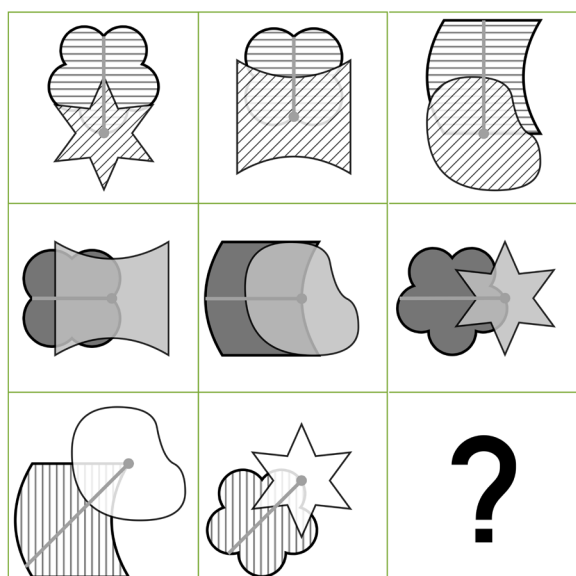
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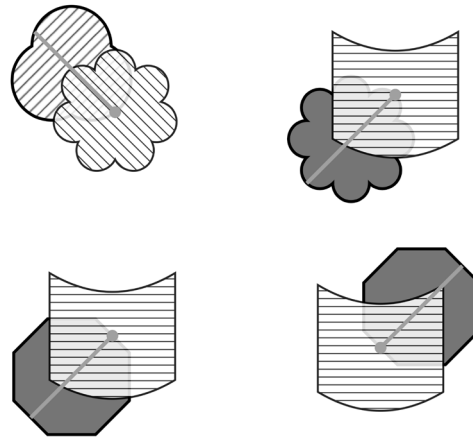
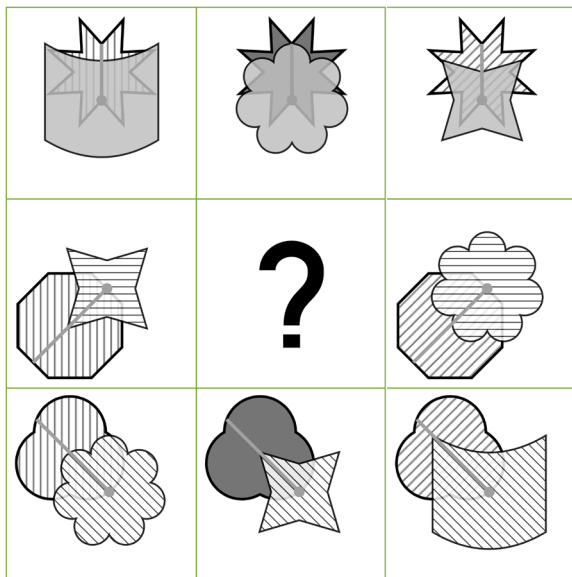
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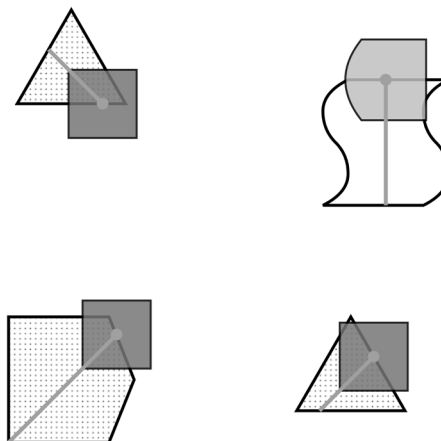
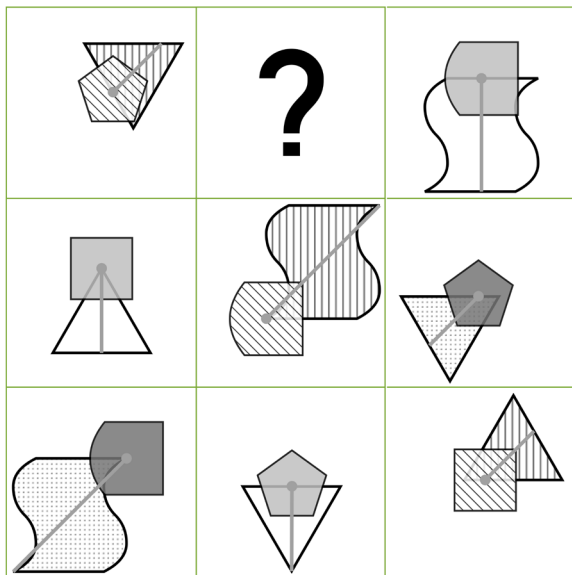
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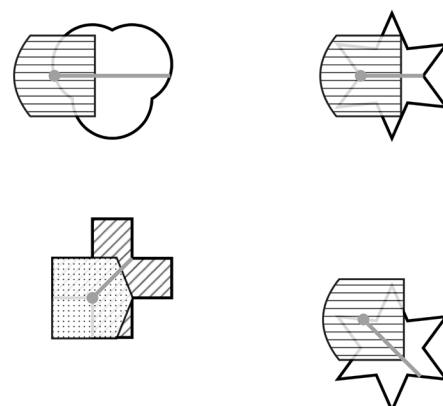
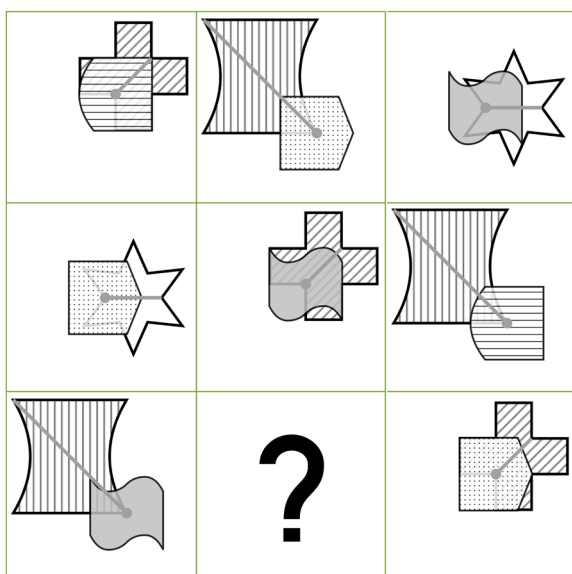
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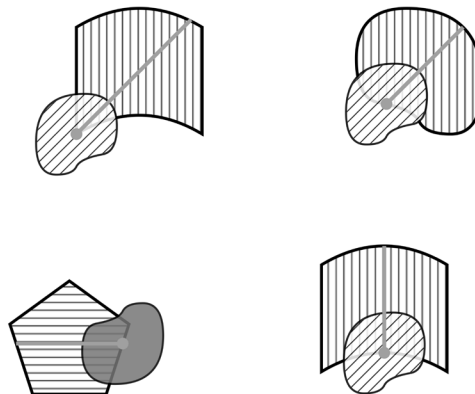
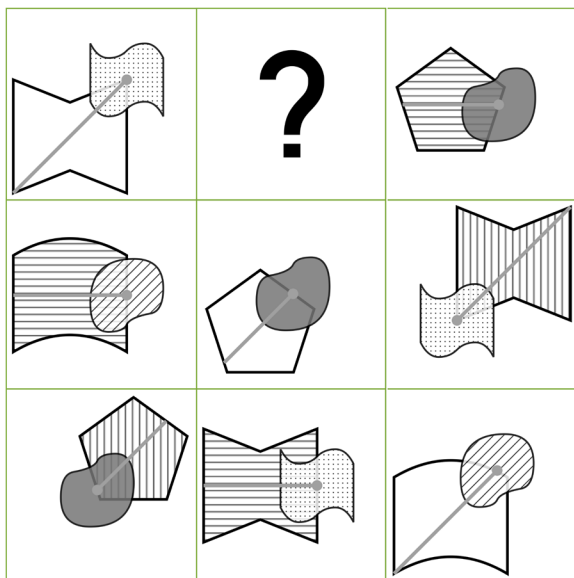
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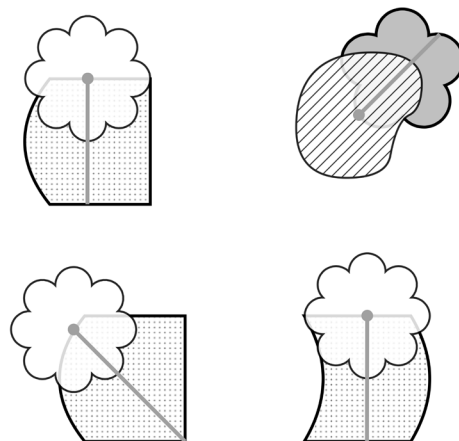
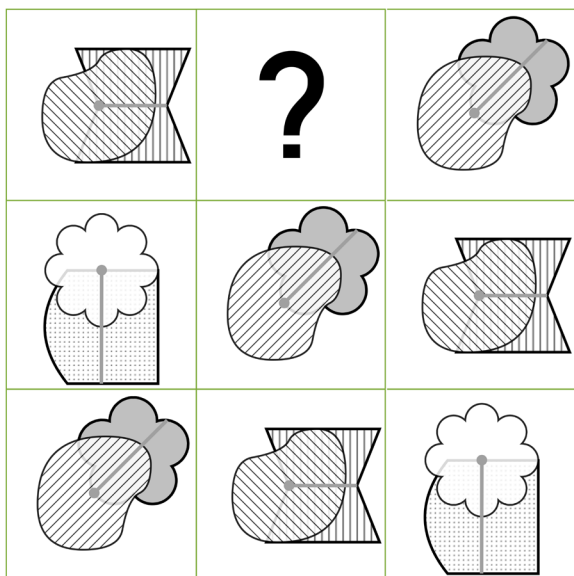
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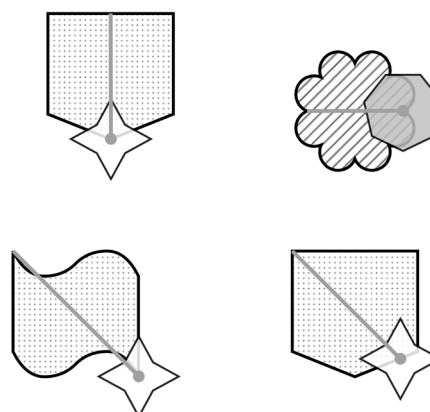
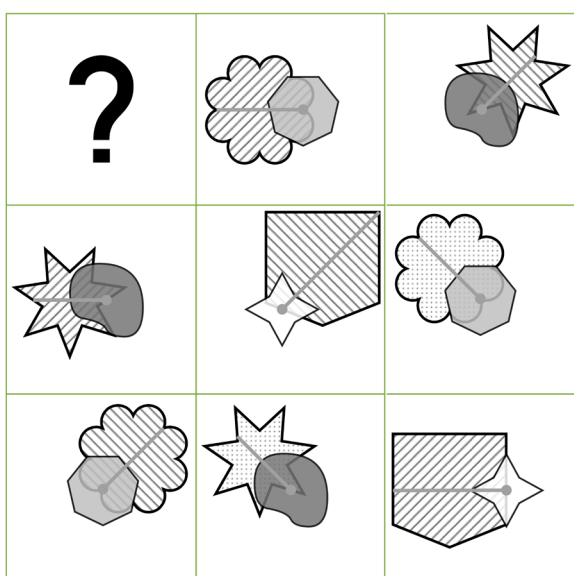
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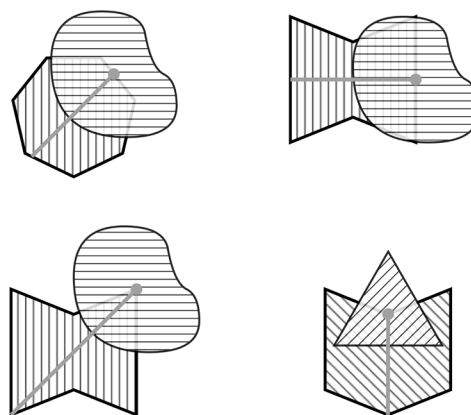
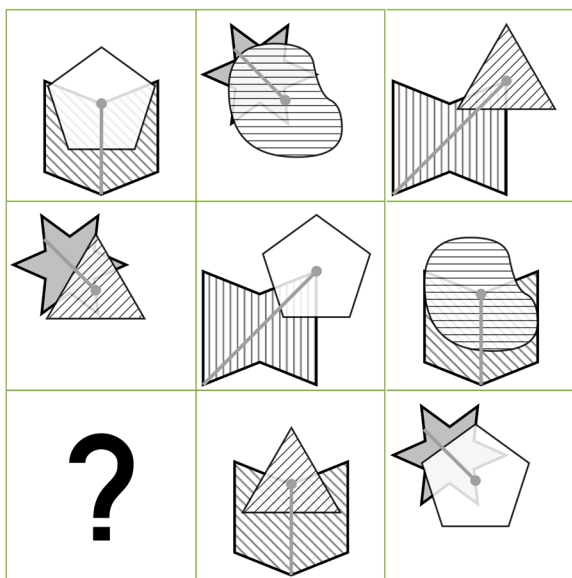
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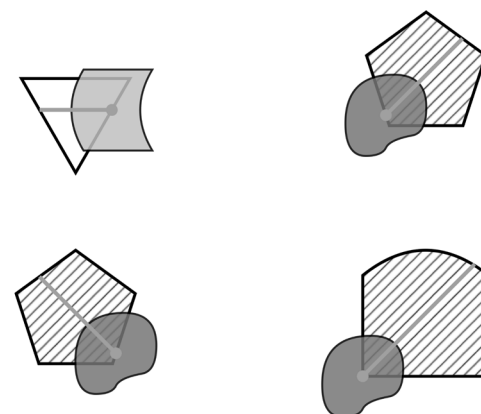
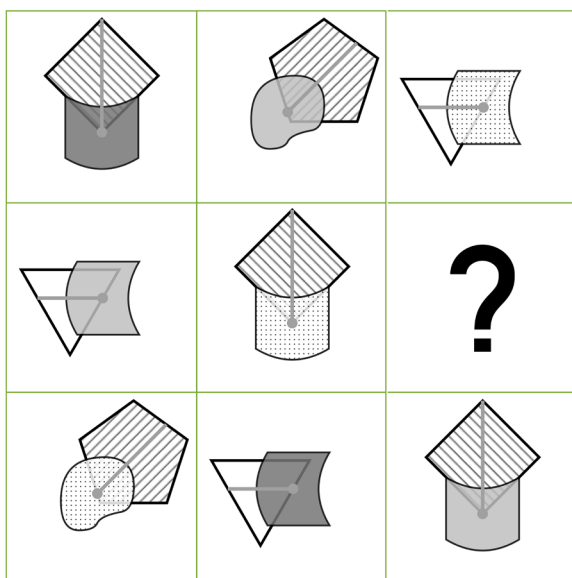
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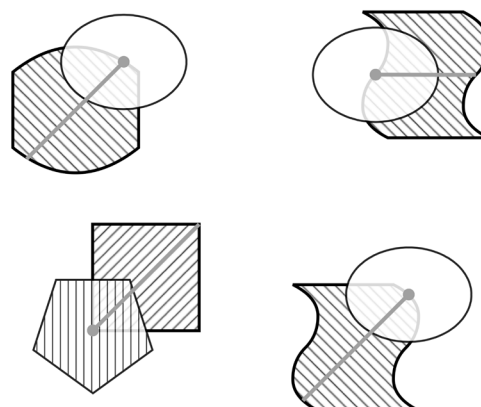
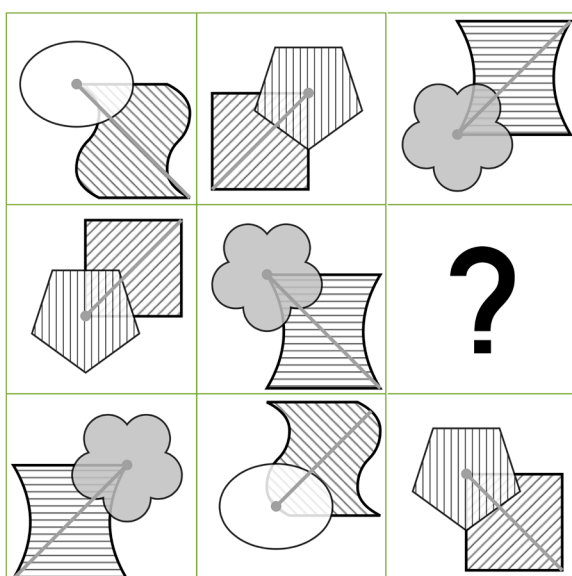
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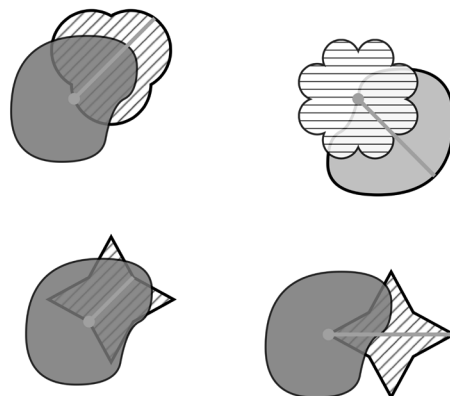
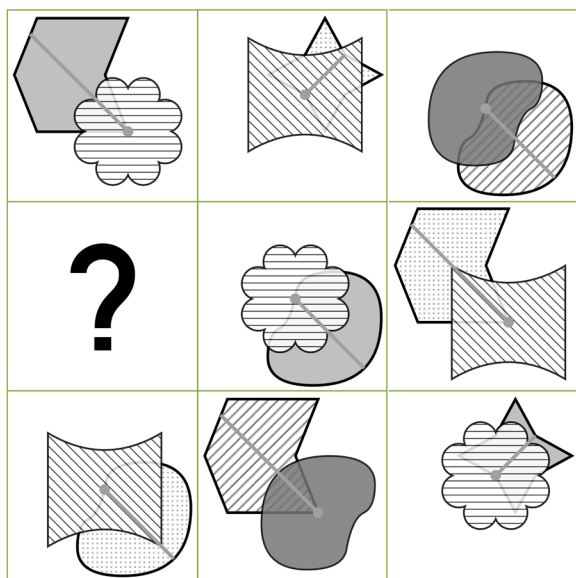
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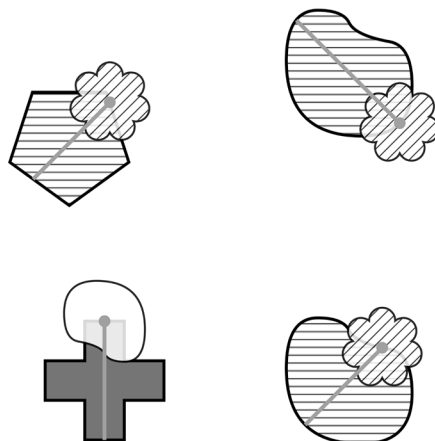
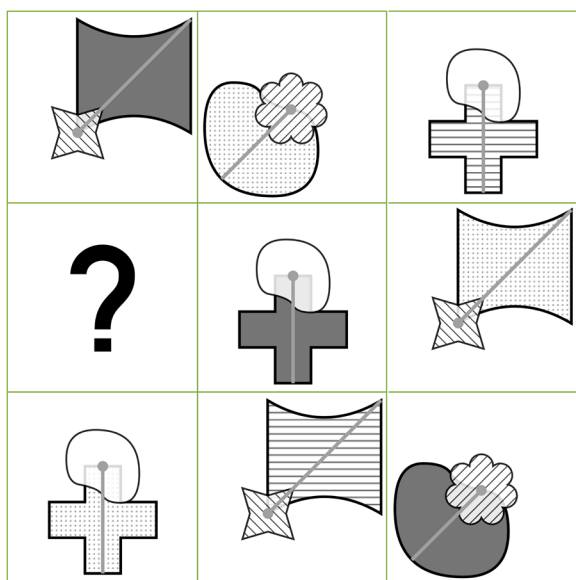
18.



19.



20.



Working Out Space

[illegible]

Working Out Space

[illegible]

END OF TEST