

# CEM Select Mock Paper B

**This paper includes 6 modules:**

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

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

**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 *Jo's Boys* by Louisa M. Alcott then answer the questions that follow.**

This was the beginning of the summer holiday, and it was curious to see what a pleasant little stir Dan's and Emil's coming made in the quiet life of the studious community; for they seemed to bring a fresh breeze with them that enlivened everyone. Many of the collegians remained during vacation; and Plumfield and Parnassus did their best to make these days  
5 pleasant for them, since most came from distant States, were poor, and had few opportunities but this for culture or amusement. Emil was hail-fellow-well-met with men and maids, and went rollicking about in true sailor fashion; but Dan stood rather in awe of the 'fair girl-graduates', and was silent when among them, eyeing them as an eagle might a flock of doves. He got on better with the young men, and was their hero at once. Their  
10 admiration for his manly accomplishments did him good; because he felt his educational defects keenly, and often wondered if he could find anything in books to satisfy him as thoroughly as did the lessons he was learning from Nature's splendidly illustrated volume. In spite of his silence, the girls found out his good qualities, and regarded 'the Spaniard', as they named him, with great favour; for his black eyes were more eloquent than his tongue,  
15 and the kind creatures tried to show their friendly interests in many charming ways.

He saw this, and endeavoured to be worthy of it—curbing his free speech, toning down his rough manners, and watching the effect of all he said and did, anxious to make a good impression. The social atmosphere warmed his lonely heart, the culture excited him to do his best, and the changes which had taken place during his absence, both in himself and  
20 others, made the old home seem like a new world. After the life in California, it was sweet and restful to be here, with these familiar faces round him, helping him to forget much that he regretted, and to resolve to deserve more entirely the confidence of these good fellows, the respect of these innocent girls.

So there was riding, rowing, and picnicking by day, music, dancing, and plays by night; and everyone said there had not been so gay a vacation for years. Bess kept her  
25 promise, and let the dust gather on her beloved clay while she went pleasuring with her mates or studied music with her father, who rejoiced over the fresh roses in her cheeks and the laughter which chased away the dreamy look she used to wear. Josie quarrelled less with Ted; for Dan had a way of looking at her which quelled her instantly, and had  
30 almost as good an effect upon her rebellious cousin. But Octoo did even more for the lively youth, who found that her charms entirely eclipsed those of the bicycle which had been his heart's delight before. Early and late he rode this untiring beast, and began to gain flesh—to the great joy of his mother, who feared that her beanstalk was growing too fast for health.

Demi, finding business dull, solaced his leisure by photographing everybody he could induce to sit or stand to him, producing some excellent pictures among many failures; for he had a pretty taste in grouping, and endless patience. He might be said to view the world through the lens of his camera, and seemed to enjoy himself very much squinting at his fellow beings from under a bit of black cambric. Dan was a treasure to him; for he took  
40 well, and willingly posed in his Mexican costume, with horse and hound, and all wanted copies of these effective photographs. Bess, also, was a favourite sitter; and Demi received a prize at the Amateur Photographic Exhibition for one of his cousin with all her hair about her face, which rose from the cloud of white lace draping the shoulders. These were freely handed round by the proud artist; and one copy had a tender little history yet to be told.

**Module 1 – Circle the correct answer.**

1. What was the impact of Dan's and Emil's arrival on the community during summer vacation?
  - A They brought a sense of calm and tranquillity.
  - B They caused disruption and chaos.
  - C They brought a fresh and lively atmosphere.
  - D They brought presents.
  
2. Why did most of the collegians remain during vacation? Choose one reason.
  - A They wanted to continue their studies.
  - B They were poor.
  - C They came from the UK.
  - D They wanted to help with community events.
  
3. Choose one alternative word for the word 'rejoiced', as used in the context of the text.
  - A cried
  - B loving
  - C delighted
  - D devastation
  
4. How did Emil behave among the students during the vacation?
  - A He was reserved and silent.
  - B He was rollicking and sociable.
  - C He kept to himself and avoided interactions.
  - D He was indifferent to the others.
  
5. How did Dan feel about the 'fair girl-graduates'?
  - A He felt comfortable and chatty among them.
  - B He admired them and was silent in their presence.
  - C He was indifferent and didn't notice them much.
  - D He was dismissive of their presence.

6. **Where had Dan come from?**
- A California
  - B UK
  - C Mexico
  - D Spain
7. **Why did Dan try to curb his free speech and tone down his rough manners?**
- A He was asked to do so by the community.
  - B He wanted to make a good impression on the others.
  - C He was trying to avoid attention.
  - D He was imitating Emil's behaviour.
8. **How did the social atmosphere affect Dan?**
- A It made him more reserved and distant.
  - B It warmed his lonely heart and excited him to do his best.
  - C It had no effect on him.
  - D It made him regret being there.
9. **What hobby did Demi take up during the vacation?**
- A painting landscapes
  - B playing musical instruments
  - C photography
  - D horseback riding
10. **What is the below quote an example of?**
- 'Plumfield and Parnassus did their best'**
- A alliteration
  - B an idiom
  - C personification
  - D a rhetorical question

11. In paragraph three, what three things are said to be done in the day? Pick three.
- A picnicking
  - B riding
  - C swimming
  - D rowing
12. Choose one alternative word for the word 'rebellious', as used in the context of the text.
- A defiant
  - B submissive
  - C excitable
  - D pretentious
13. What time of year is this passage set?
- A Spring
  - B Summer
  - C Autumn
  - D Winter
14. In the below quote, which word is a proper noun?
- 'After the life in California, it was sweet and restful to be here...'**
- A sweet
  - B California
  - C here
  - D be
15. Choose one alternative word for the word 'eclipsed', as used in the context of the text.
- A outshone
  - B inshined
  - C created
  - D forgotten

16. Select the correct meaning of the word 'patience'.
- A An act of resigning from a job or office.
  - B Allow oneself to enjoy the pleasure of.
  - C Having or showing a friendly, generous, and considerate nature.
  - D The ability to accept delay, suffering, or annoyance without complaining or becoming angry.
17. How did the girls view Dan, and what nickname did they give him?
- A They disliked him, and they called him 'The Outsider'.
  - B They regarded him with favour, and they named him 'The Spaniard'.
  - C They found him arrogant, and they called him 'The Lone Wolf'.
  - D They were indifferent and did not give him a nickname.
18. Select the correct meaning of the word 'defects'.
- A A shortcoming, imperfection or lack.
  - B A narrow space between two surfaces that have broken or been moved apart.
  - C An allotted place in an arrangement or scheme.
  - D Cause (someone) to deviate from an intended purpose.
19. For what did Demi receive a prize for at the Amateur Photographic Exhibition?
- A A picture of landscapes.
  - B A picture of Josie.
  - C A picture of Dan.
  - D A picture of Bess.
20. Why was Octoo important to Ted during the vacation?
- A Octoo was Ted's favourite pet.
  - B Octoo had a calming influence on Ted.
  - C Octoo's charms eclipsed Ted's bicycle.
  - D Ted disliked Octoo.

21. What did Josie and Ted quarrel less about during the vacation?
- A Study habits.
  - B Dan's arrival.
  - C Josie's rebellious nature.
  - D Octoo's influence on Ted.
22. Select the correct meaning of the word **'quelled'**.
- A Subdue or silence (someone).
  - B Resolve or reach an agreement about (an argument or problem).
  - C Fasten (something) securely in a particular place or position.
  - D (Of lines) tend to meet at a point.
23. What is the below quote an example of?
- 'rose from the cloud of white lace draping the shoulders.'**
- A simile
  - B idiom
  - C metaphor
  - D personification

**TURN OVER FOR MODULE 2**

## 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. A **lhwae** is believed to be the biggest animal in the ocean.

\_\_\_\_\_

2. The compass points **rohnt** when you want to find your way.

\_\_\_\_\_

3. The **kys** is like a big, blue blanket that covers the whole world.

\_\_\_\_\_

4. The little monkey loves to **lbcmi** the tall trees and swing between them.

\_\_\_\_\_

5. The **cscuta** plant has sharp spikes and stores water inside.

\_\_\_\_\_

6. An **nasdil** is surrounded by water on all sides.

\_\_\_\_\_

7. The **zpzuel** pieces fit together to make a beautiful picture.

\_\_\_\_\_

8. The **predis** spins a delicate web.

\_\_\_\_\_

9. The room is lit by a softly glowing **nlecda**.

\_\_\_\_\_



10. The **uterresa** chest was found buried in the sand and full of gold coins.  
\_\_\_\_\_
11. The fresh bread and pastries cooking, made the **aeyrbk** smell wonderful.  
\_\_\_\_\_
12. In the vast, hot **eestrđ**, you can walk for miles and only see sand dunes.  
\_\_\_\_\_
13. Standing by the shore, I watched the **neaco** waves crash against the rocks.  
\_\_\_\_\_
14. The ice **atreks** glided gracefully around the rink.  
\_\_\_\_\_
15. The wise **rdaziw** waved his wand, and sparks of magic filled the air.  
\_\_\_\_\_
16. I think the **ilaed** spot for a picnic is a cosy spot under a tree, with a beautiful view.  
\_\_\_\_\_
17. The ancient **atelcs** stood tall on the hill, with its towers reaching towards the sky.  
\_\_\_\_\_
18. A **rteltu** moves slowly across the sand, carrying his shell like a little mobile home.  
\_\_\_\_\_
19. There are seven beautiful colours in the **ibwrnao**.  
\_\_\_\_\_

20. The **riorm** refelcts your face when you look in it.

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21. The **jneglu** is full of tall trees and wild animals.

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**TURN OVER FOR MODULE 3**

### 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 15 missing words.

The Eiffel Tower is one of the most fam\_\_\_\_\_ landmarks in the world and a symbol of the city of Paris. Located in Paris, France, this ic\_\_\_\_\_ structure was completed in 1889 for the Exposition Universelle, a world's fair held to celebrate the 100th anniversary of the French Revolution. Designed by the eng\_\_\_\_\_ Gustave Eiffel, the tower was in\_\_\_\_\_ criticized by some of France's leading artists and intellectuals, but has since become a beloved sy\_\_\_\_\_ of French culture and ingenuity.

Standing at 324 meters t\_\_\_\_\_, the Eiffel Tower was the tallest man-made structure in the wo\_\_\_\_\_ until the completion of the Empire State Building in New York City in 1931. The tower is made of iron and we\_\_\_\_\_ approximately 10,000 tonnes. It has three levels that visitors can ex\_\_\_\_\_. The first two levels have restaurants and shops, while the third level, the observation deck, offers stunning views of Paris and beyond.

The Eiffel Tower is ill\_\_\_\_\_ at night with thousands of lights that create a sparkling effect. Every evening, it puts on a dazzling light show that lasts for about five minutes at the start of each hour after sunset. This spectacle draws millions of visitors from all over the world who come to see the tower in its evening gl\_\_\_\_\_.

**TURN OVER FOR THE NEXT PASSAGE**

Katrina Johnson-Thompson is a prominent British heptathlete known for her exc\_\_\_\_\_ talent and det\_\_\_\_\_ in track and field events. Born on January 9, 1993, in Liverpool, England, Johnson-Thompson has become one of the leading figures in multi-event athletics, a discipline that tests an athlete's versatility and end\_\_\_\_\_ across seven different events.

Johnson-Thompson's athletic ca\_\_\_\_\_ began to gain momentum during her teenage years. She showcased remarkable po\_\_\_\_\_ from an early age, winning the World Junior Championships in 2012. Her early su\_\_\_\_\_ was a clear indication of her future achievements, as she demonstrated an ab\_\_\_\_\_ to excel in a variety of track and field events, including the 100 metres hurdles, high jump, and 800 metres.

One of Johnson-Thompson's significant career highlights came in 2015 when she clinched the gold medal in the heptathlon at the World Championships in Beijing. This victory was a major milestone, est\_\_\_\_\_ her as a world-class athlete and earning her widespread rec\_\_\_\_\_ in the sports community. Her pe\_\_\_\_\_ in the heptathlon was a testament to her hard work and com\_\_\_\_\_ to the sport, combining strength, speed, and agility across multiple disciplines.

As of recent years, Katrina Johnson-Thompson continues to be a key co\_\_\_\_\_ on the international athletics circuit. Her journey from a promising young athlete to a wo\_\_\_\_\_ champion serves as an inspiring story for \_\_\_\_\_ athletes everywhere. With her remarkable achievements and unwavering dedication, Johnson-Thompson has firmly established herself as one of the most tal\_\_\_\_\_ and influential heptathletes of her generation.

**TURN OVER FOR MODULE 4**

## 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. genuine aut\_\_\_\_\_
2. disperse sca\_\_\_\_\_
3. banish ex\_\_\_\_\_
4. fortify str\_\_\_\_\_
5. vast exp\_\_\_\_\_
6. surpass ex\_\_\_\_\_
7. pristine unt\_\_\_\_\_
8. ponder co\_\_\_\_\_
9. blunder mi\_\_\_\_\_
10. reluctant hes\_\_\_\_\_
11. cautious wa\_\_\_\_\_
12. delicate fr\_\_\_\_\_
13. annoy ir\_\_\_\_\_
14. jubilant che\_\_\_\_\_
15. inhibit re\_\_\_\_\_
16. magnify en\_\_\_\_\_
17. voracious gre\_\_\_\_\_
18. eloquent art\_\_\_\_\_
19. resilient to\_\_\_\_\_
20. incessant con\_\_\_\_\_
21. deceitful di\_\_\_\_\_

**TURN OVER FOR MODULE 5**

## 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.

a.  $(5 + 3) \times \underline{\hspace{2cm}} = 32$

b.  $236 - (24 + 12) \times \frac{1}{4} = \frac{1}{2} \times \underline{\hspace{2cm}}$

c.  $4 \div \frac{2}{3} = 2^2 + \underline{\hspace{2cm}}$

d.  $10^2 - (24 + \underline{\hspace{2cm}}) = (25 + 17) \div 3$

e.  $(\frac{3}{4} + 0.5) \times 8 = \underline{\hspace{2cm}} \div 10$

2. Let  $A = 6$  and  $C = 10$ .

If  $A^2 + B^2 = C^2$ , what is the value of  $B$ ?

\_\_\_\_\_

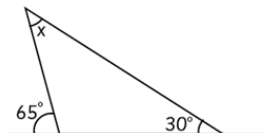
3. What is 16% as a fraction in its simplest form?

\_\_\_\_\_

4. A coin is thrown 24 times. How many times is it likely to land on tails?

\_\_\_\_\_

5. If angle  $x$  is 125 degrees, how big is the remaining angle inside the triangle?



\_\_\_\_\_

6. A rectangle has a perimeter of 26cm. Its length is 6cm. What is its width?

\_\_\_\_\_

7. Breeda splits 2.7kg of sweets into 100 bags. How much does each bag weigh?

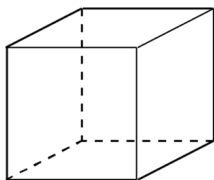
\_\_\_\_\_

8. The timetable below shows departure times, duration and prices for boat trips running daily from the St Ives harbour.

Departure time	Duration	Price (Adults)	Price (Children)
10:00 AM	1 hour	£15	£10
12:00 PM	1.5 hours	£20	£15
2:00 PM	2 hours	£25	£20
4:00 PM	1 hour	£15	£10

- a. If a family of 2 adults and 3 children take the boat trip at 12:00 PM, what will be the total cost for the trip?  
\_\_\_\_\_
- b. The 1-hour boat trip is an 8km tour around the coast. If the 1.5-hour boat travels at the same speed, how many km is the total journey?  
\_\_\_\_\_
- c. Compare the price of a 1-hour trip at 10:00 AM with a 1.5-hour trip at 12:00 PM for an adult and a child. How much more does it cost for each person on the longer trip?  
\_\_\_\_\_
- d. If the ratio of adults to children on the 4:00 PM boat trip is 3:2, and the total number of tickets sold is 20, how many tickets were bought by adults?  
\_\_\_\_\_
9. Jagga plays a board game with friends and it takes 174 minutes. Roughly how many hours did it last?  
\_\_\_\_\_

10. Use the cube below to answer the questions.



- a. How many faces does this cube have? \_\_\_\_\_
- b. How many vertices does this cube have? \_\_\_\_\_
- c. How many edges does this cube have? \_\_\_\_\_

11. Emma is baking cookies.

a. She uses 2.25 cups of flour for one batch of cookies. How many cups of flour does she need for 4 batches?

\_\_\_\_\_

b. If each batch makes 12 cookies, how many cookies will she have after baking 6 batches?

\_\_\_\_\_

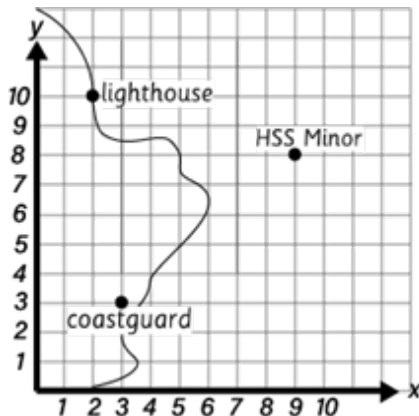
c. After making 6 batches, Emma gives  $\frac{2}{3}$  of the cookies to her friends. How many cookies is she left with?

\_\_\_\_\_

12. Honey got 12 out of 48 on a history test. What percentage did Honey get?

\_\_\_\_\_

13.



a. What are the coordinates of the lighthouse?

\_\_\_\_\_

b. What are the coordinates of the coastguard?

\_\_\_\_\_

c. If the 3 points on the graph are joined, it would form a triangle. What type of triangle would be formed?

\_\_\_\_\_



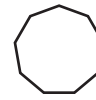
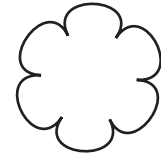
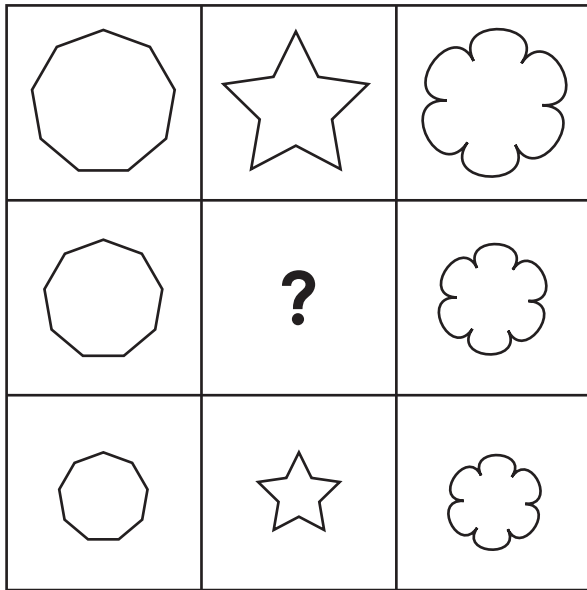
- 14.** A rectangular swimming pool is being filled with water.
- a.** The pool is 10 metres long, 6 metres wide, and 2 metres deep. What is the volume of the pool?
- \_\_\_\_\_
- b.** If the pool is filled at a rate of 1.5 cubic metres per hour, how many hours will it take to fill the pool?
- \_\_\_\_\_
- c.** The pool holds approximately 120,000 litres of water. The ratio of pool cleaning solution to the total volume of the pool is 1:240. How much pool cleaning solution needs to be added to the whole pool? Give your answer in litres.
- \_\_\_\_\_
- 15.** A toy store is having a sale. A toy car originally costs £30, but there is a 15% discount. What is the sale price of the toy car?
- \_\_\_\_\_

**TURN OVER FOR MODULE 6**

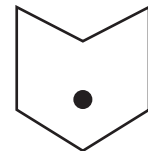
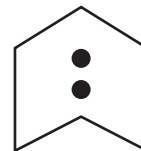
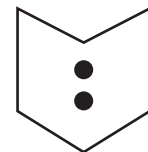
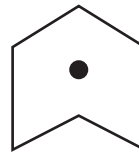
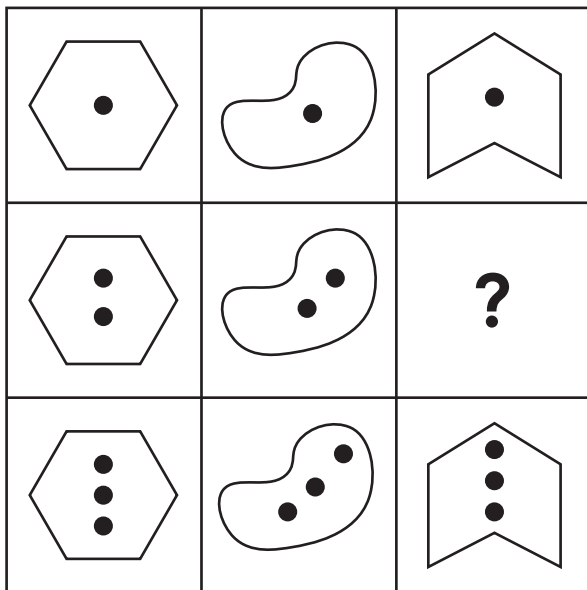
## Module 6 – Pictures

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.

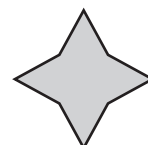
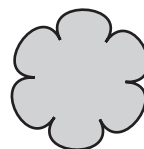
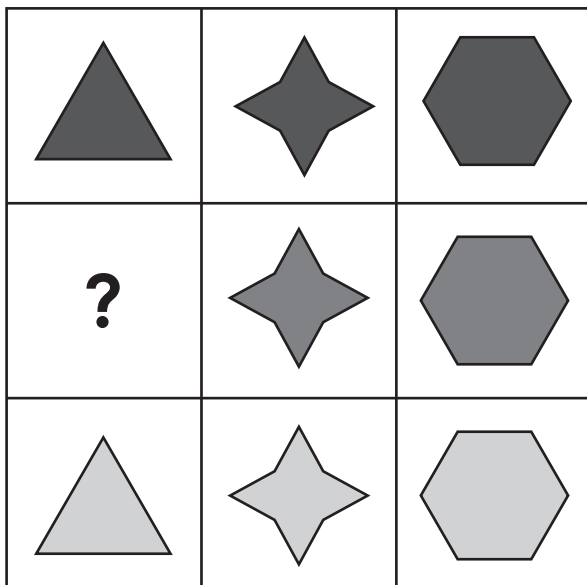
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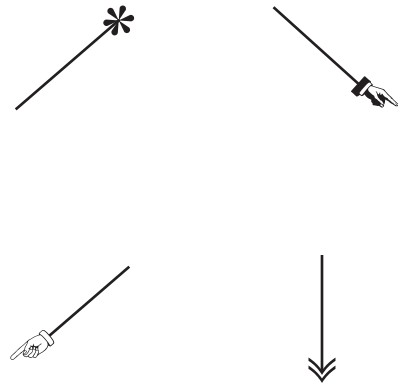
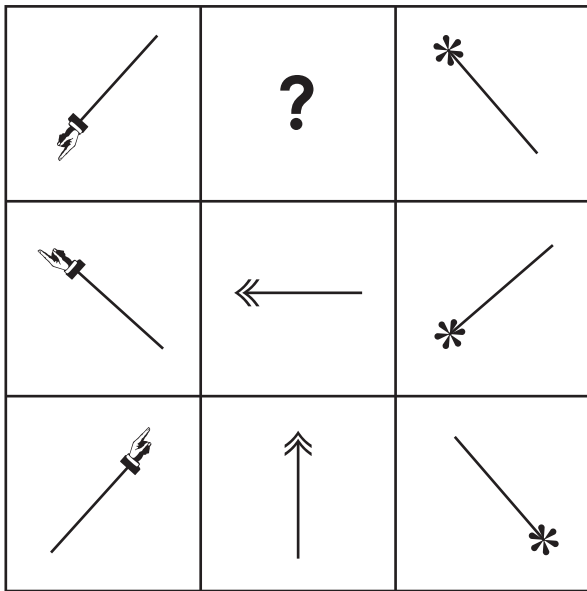
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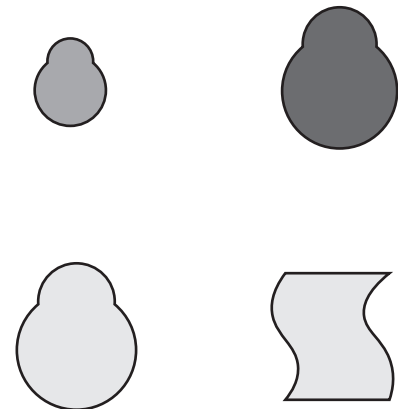
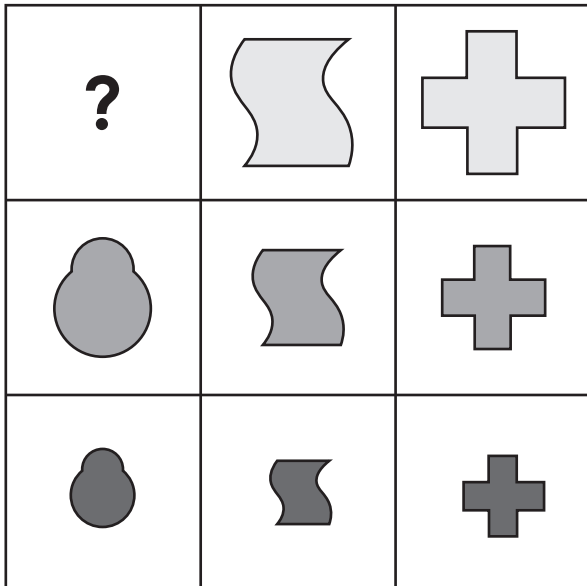
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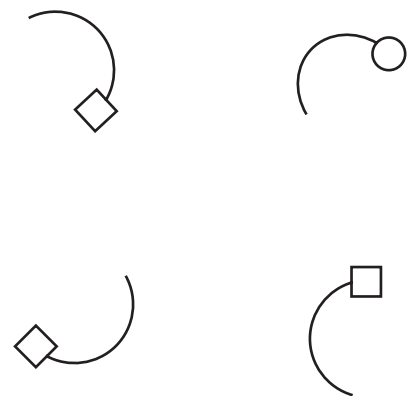
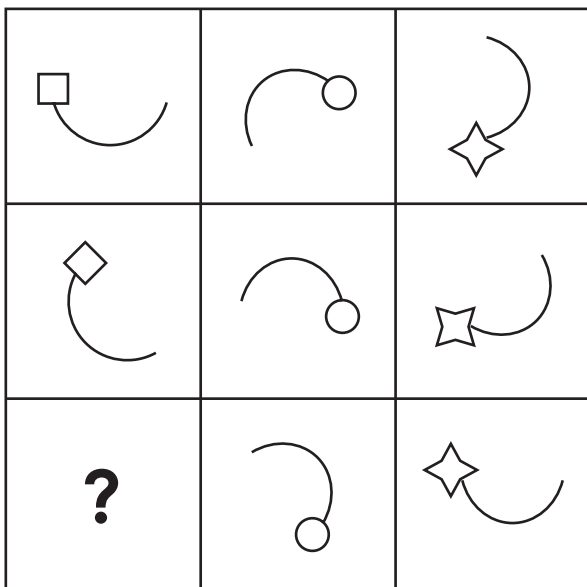
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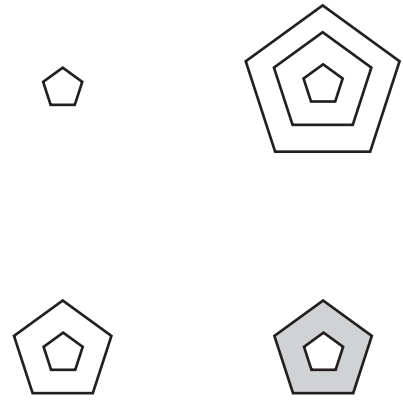
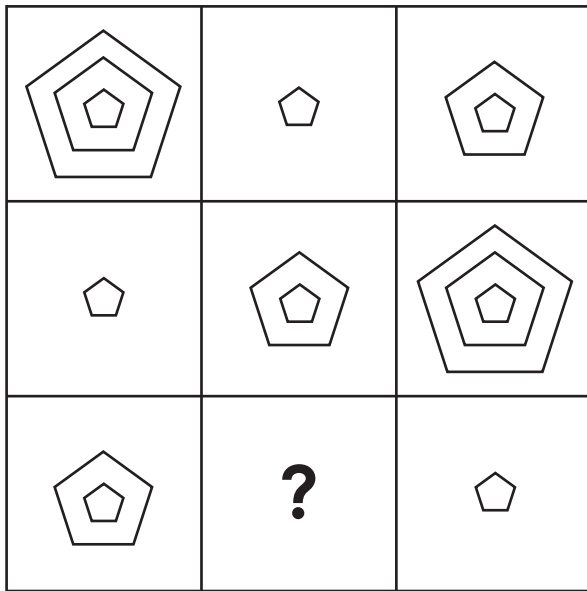
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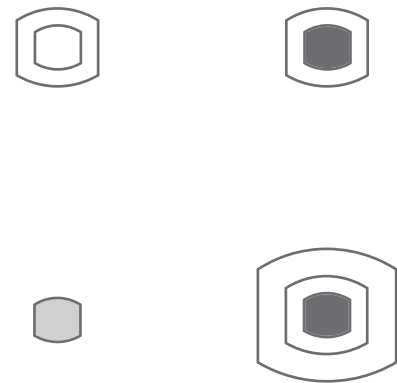
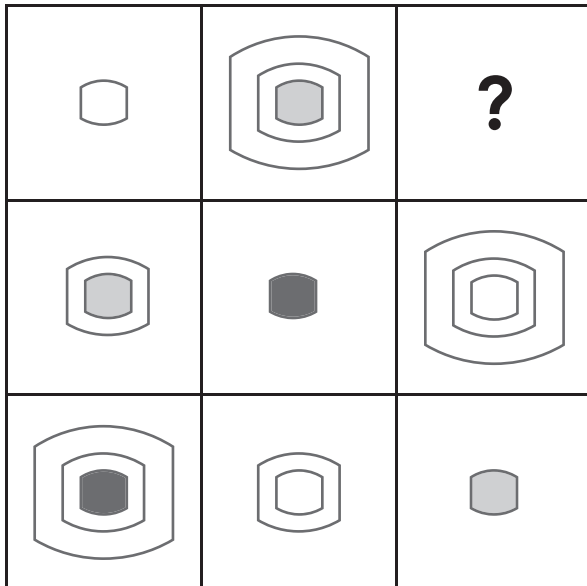
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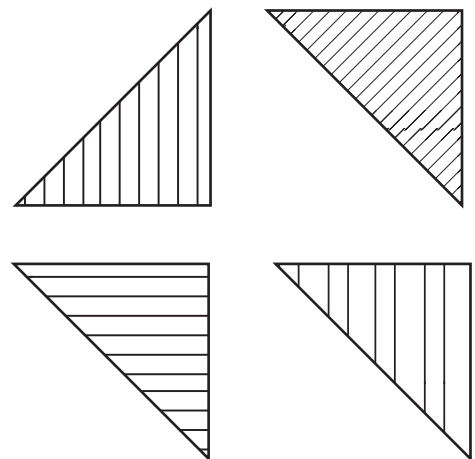
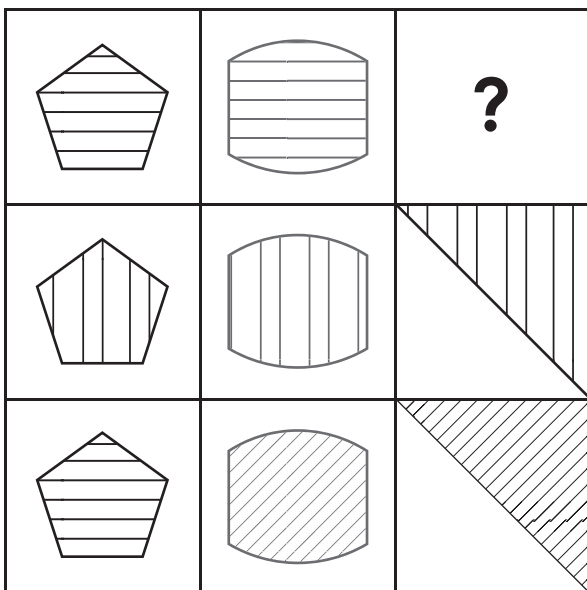
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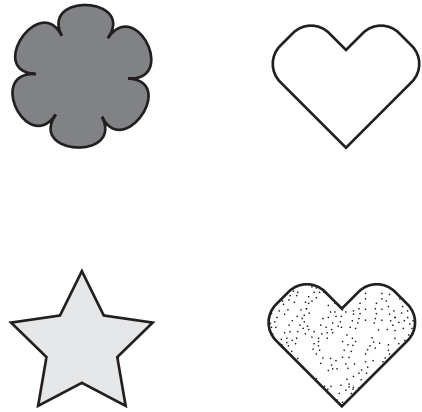
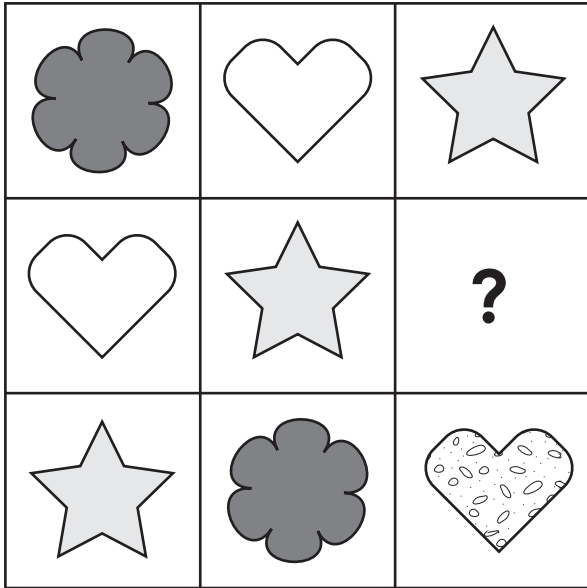
8.



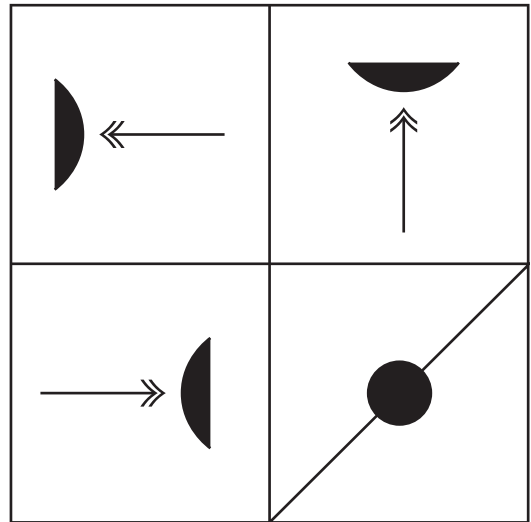
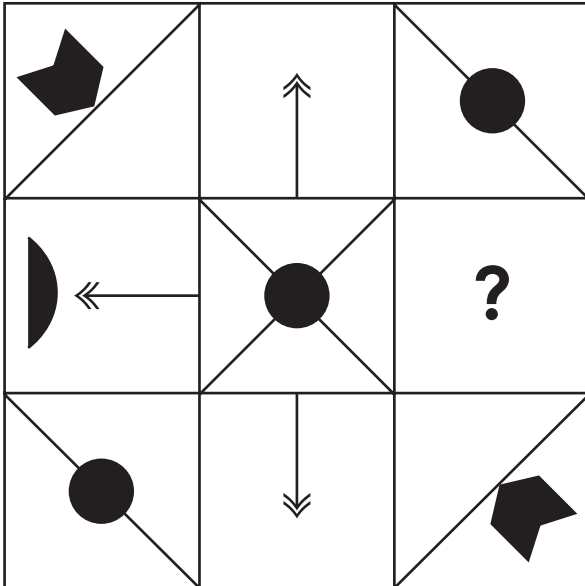
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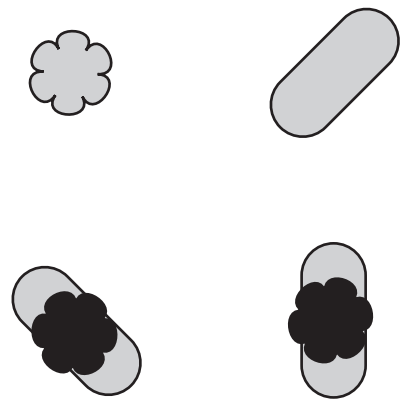
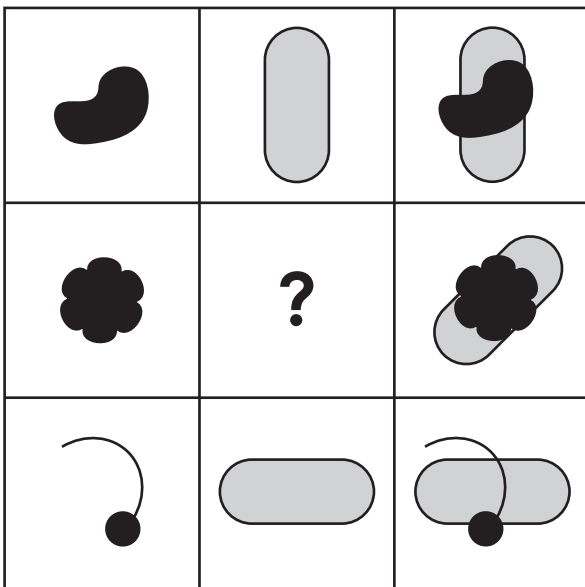
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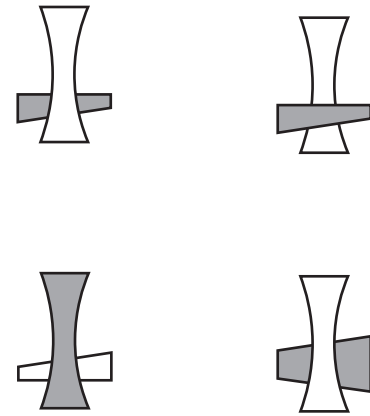
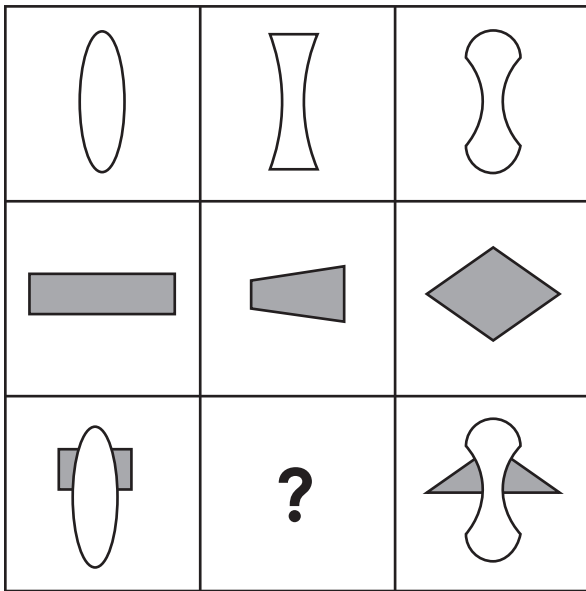
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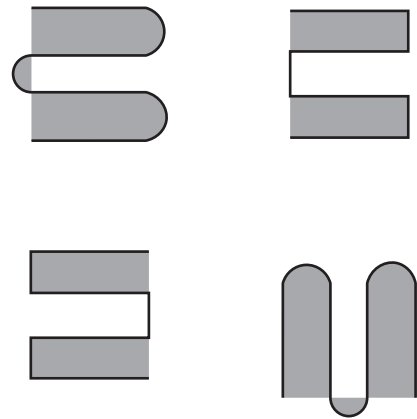
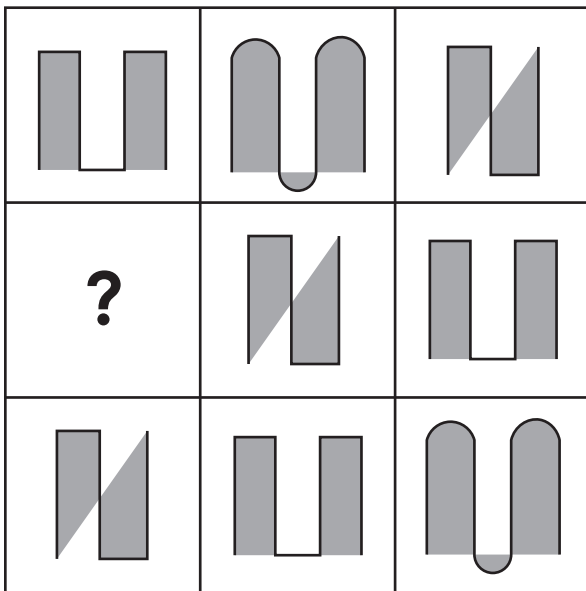
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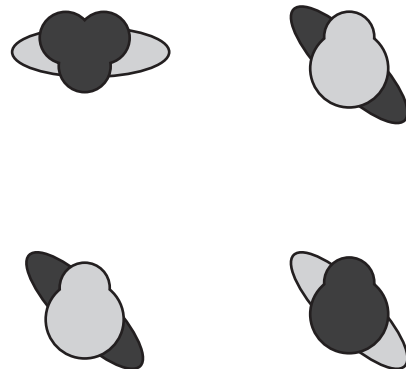
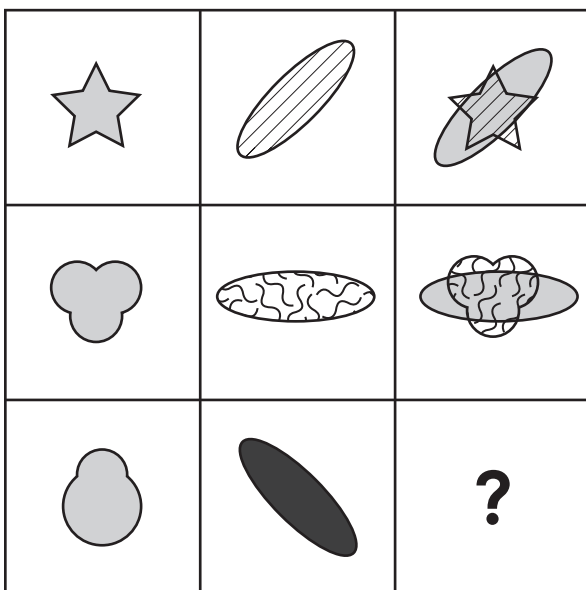
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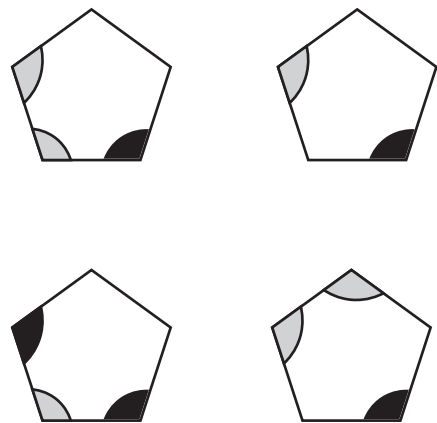
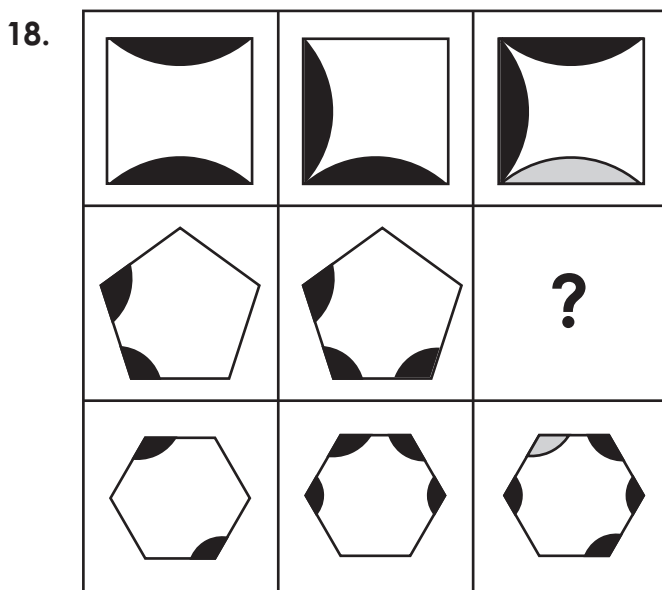
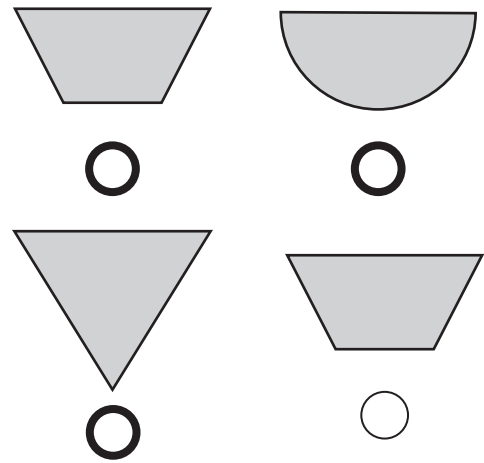
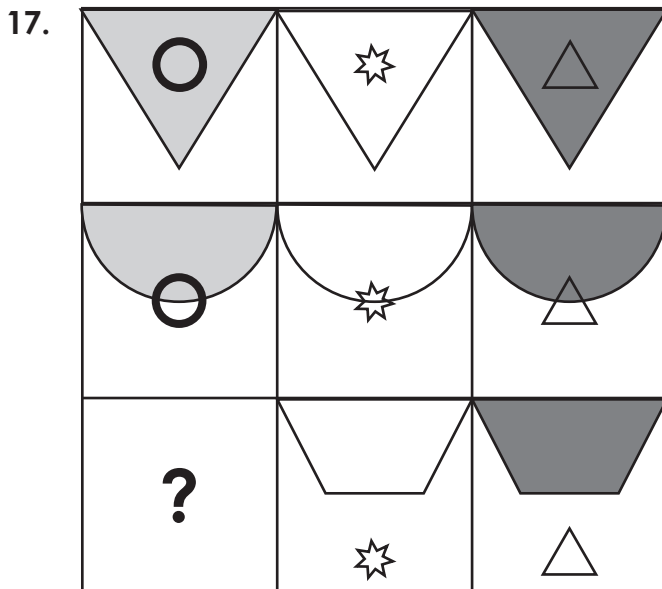
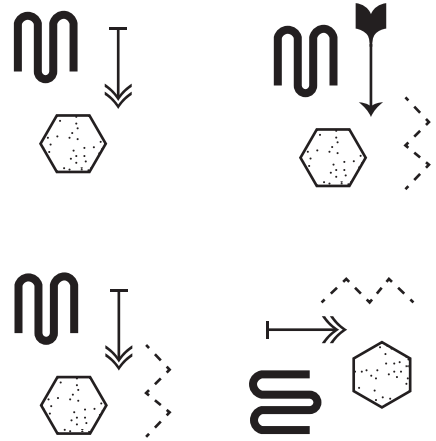
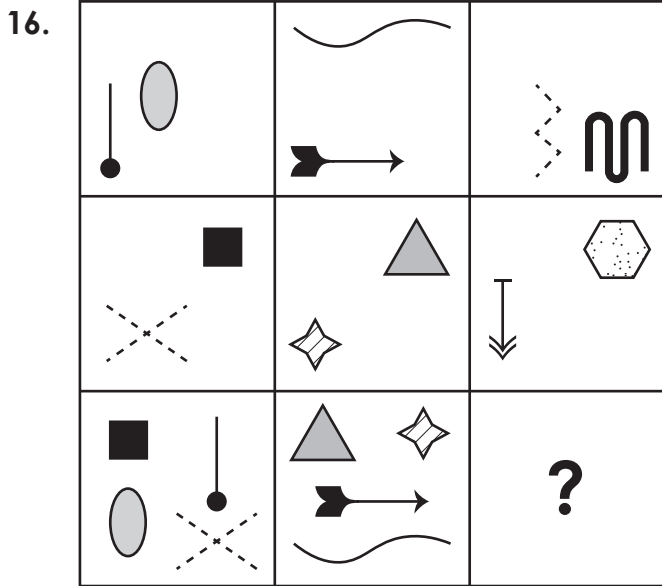


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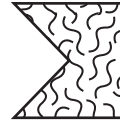
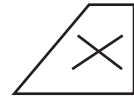
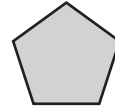
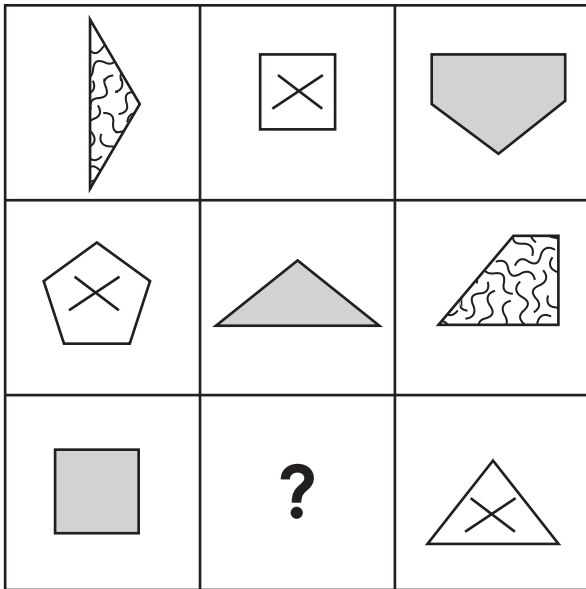


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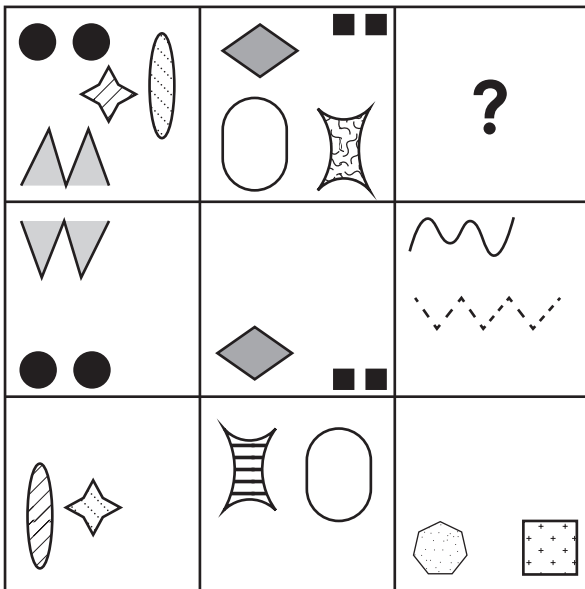




19.



20.



END OF TEST