KANGAROO MATH THAILAND 2026

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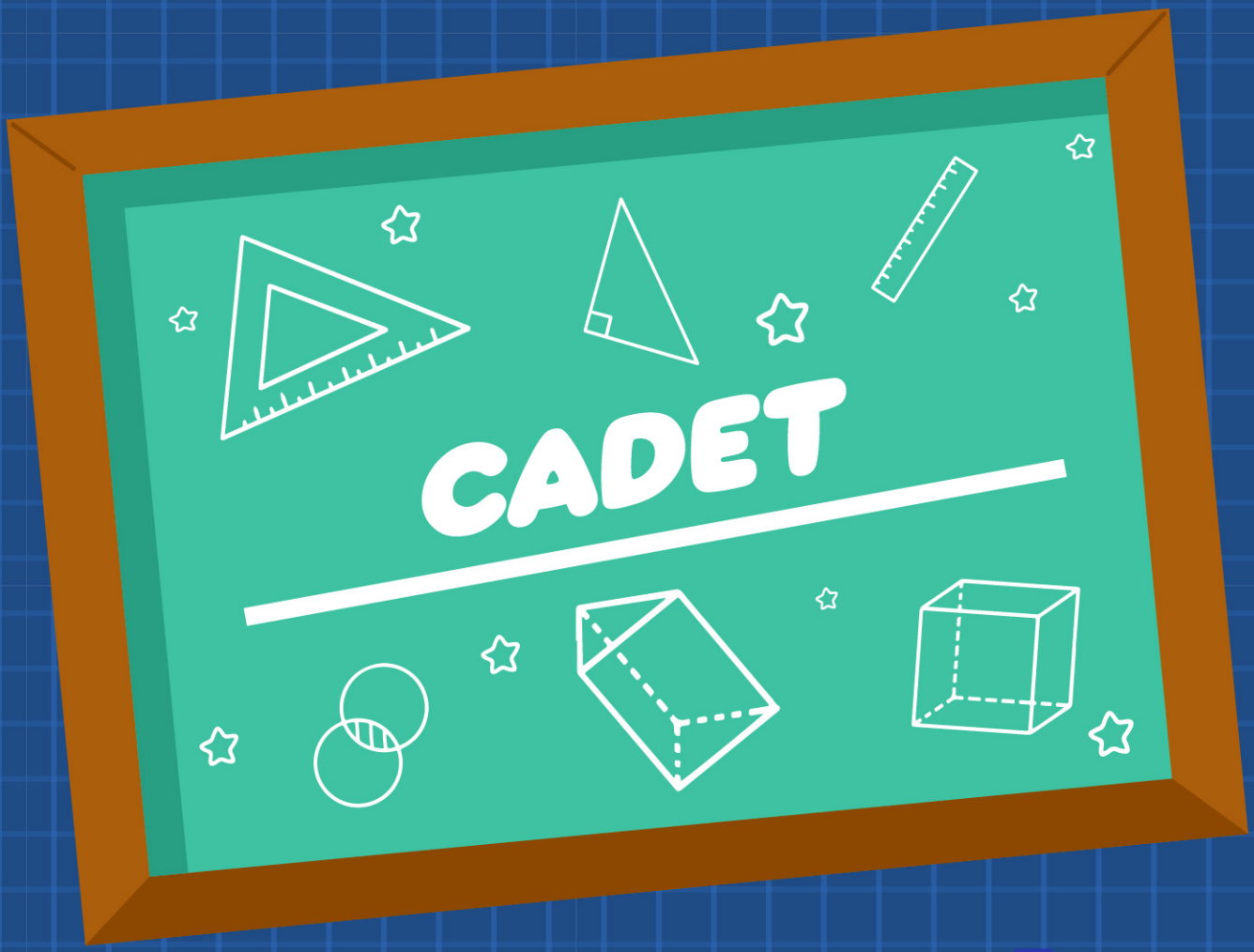
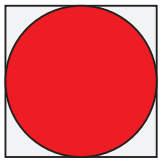
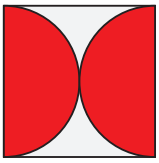
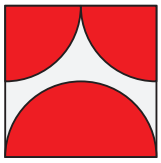


NAME:

Cadet

3 points

1. In which diagram does the shaded part have the largest area?

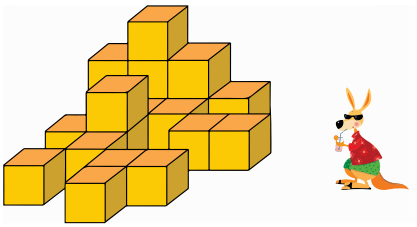
(**A**)  (**B**)  (**C**)  (**D**) 

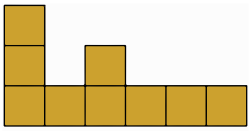
(**E**) All shaded parts have the same area.

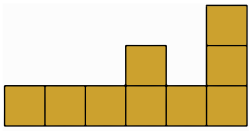
2. The year 2026 is called "all-even" because 2026 consists of only even digits. How many years will pass before the year is first an "all-even" year where its digits are all different?

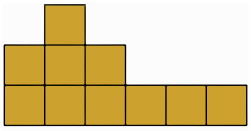
(**A**) 2 (**B**) 20 (**C**) 22 (**D**) 38 (**E**) 42

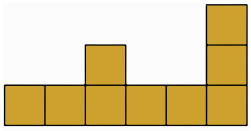
3. Karla the kangaroo is looking at the pile of twenty boxes, as shown. What does she see?

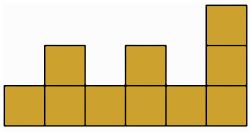


(**A**) 

(**B**) 

(**C**) 

(**D**) 

(**E**) 

4. There are three different routes from city A to city B. There are five different routes from city B to city C. Ahmad travels from city A to city C, via city B. He wishes to return to city A via city B by a route that is not completely the same as the route he used from A to C. How many possible routes can he choose for his return trip?

(**A**) 5 (**B**) 6 (**C**) 10 (**D**) 12 (**E**) 14

5. Matin held a digital clock in front of a mirror and noticed that the numbers on the reflection of clock in the mirror showed a different time of day. Which of the following times could Matin's clock be showing?

(**A**) 

(**B**) 

(**C**) 

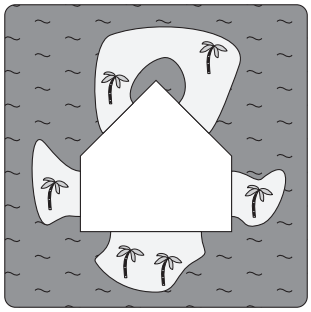
(**D**) 

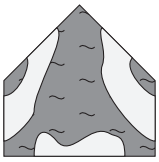
(**E**) 

6. Jo wants to place the numbers 2, 0, 2 and 6 in the boxes shown $\dfrac{\square+\square}{\square-\square}$ with one number in each box and to calculate the result. What is the smallest **positive** result she can get?

(A) $\frac{1}{6}$ **(B)** $\frac{1}{4}$ **(C)** $\frac{1}{3}$ **(D)** $\frac{1}{2}$ **(E)** $\frac{2}{3}$

7. The puzzle on the right can be completed with any of the following five pieces.
With which piece could you see the most islands on the completed puzzle?



(A)


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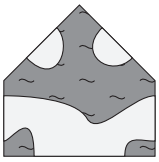
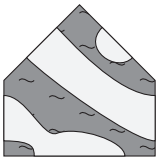
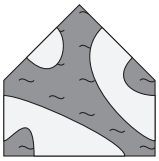


(C)


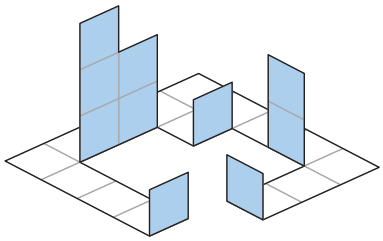
(D)


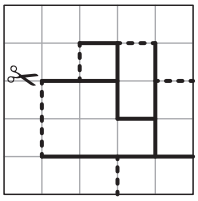
(E)

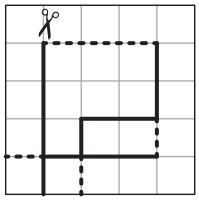

8. Which of the following numbers is **not** the sum of two or more consecutive positive whole numbers?

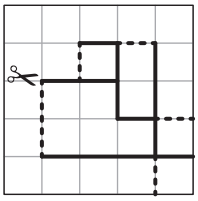
(A) 5 **(B)** 6 **(C)** 7 **(D)** 8 **(E)** 9

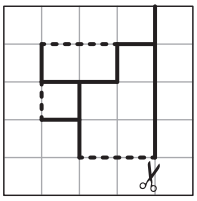
9. Ada has used a paper template to make the figure shown. The dashed lines on the template show where she would fold and the solid lines show where she would cut.
Which template did Ada use?

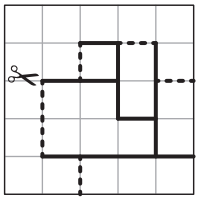


(A)


(B)


(C)


(D)


(E)


10. Four seats in a row numbered 1-4 from left to right are occupied by Andi, Budi, Citra, and Dira, but not in that order, with the following conditions:

- Andi is not in seat 1.
- Budi is directly to the right of Andi.
- Dira is not at either end.
- Citra is not in seat 3.

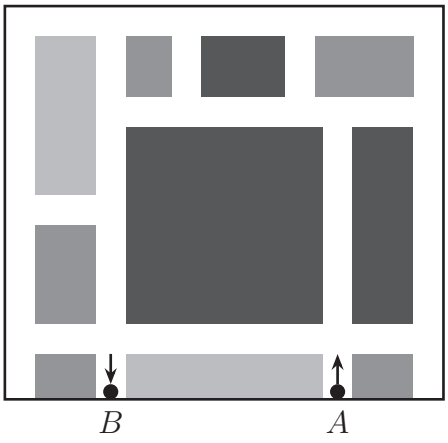
In what order, from left to right, do they sit?

(**A**) Budi, Dira, Andi, Citra (**B**) Citra, Andi, Dira, Budi (**C**) Citra, Dira, Andi, Budi
(**D**) Citra, Dira, Budi, Andi (**E**) Dira, Citra, Budi, Andi

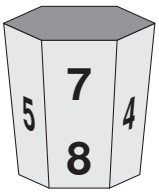
4 points

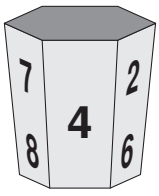
11. A map of part of Kangarooville is shown in the diagram, where the white areas represent roads. The Kangarooville rules specify that at every junction, vehicles can only go straight on or turn right. Anna wants to travel from point A to point B along the roads shown. What is the smallest number of times she must turn right?

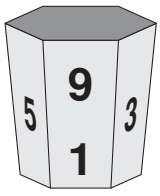
(**A**) 4
(**B**) 5
(**C**) 6
(**D**) 7
(**E**) 9

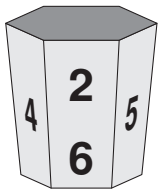


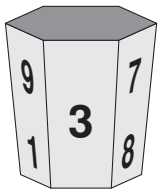
12. My mug has the digits 1 to 9 on it. It can be seen in four of the following pictures.
Which picture shows a different mug?

(**A**) 

(**B**) 

(**C**) 

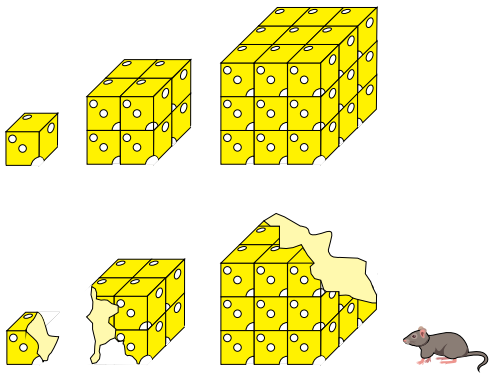
(**D**) 

(**E**) 

13. Mariam has 13 dollars less than the total amount Ria and Emma have. Ria has 5 dollars more than the total amount Emma and Mariam have. How many dollars does Emma have?

(**A**) 18 (**B**) 17 (**C**) 8 (**D**) 7 (**E**) 4

14. Mirko the mouse has three different sized blocks of cheese, each made up of identically sized cubes, as shown in the first diagram. He ate 40 % of the first block of cheese, 40 % of the second, and 20 % of the third. What percentage of the total amount of cheese did Mirko eat?

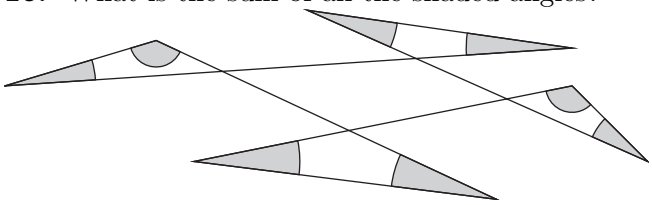


(**A**) 18 %
(**B**) 20 %
(**C**) 23 %
(**D**) 24 %
(**E**) 25 %

15. Five junior elves and a senior elf live in a magic forest. Each junior elf eats six cherries a day. Each day the senior elf eats five more cherries than the mean number of cherries eaten by all six elves. How many cherries does the senior elf eat each day?

(**A**) 10 (**B**) 11 (**C**) 12 (**D**) 13 (**E**) 14

16. What is the sum of all the shaded angles?



(**A**) 180° (**B**) 240° (**C**) 270° (**D**) 360° (**E**) 450°

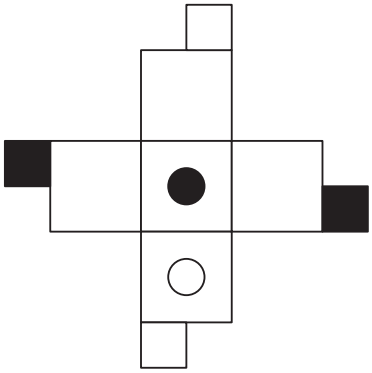
17. There are more than 23 and fewer than 29 people in my class. Everyone likes at least one of Maths or French. Twice as many people like Maths as like French. The same number of people like both Maths and French as like only French. Which of these is the total number of people in my class?

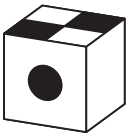
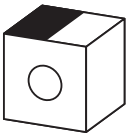
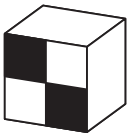
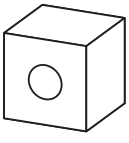
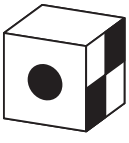
(**A**) 24 (**B**) 25 (**C**) 26 (**D**) 27 (**E**) 28

18. The units digit of a number is 1. Julio removes this digit to get a new number that is 2026 less than the original number. What is the sum of the digits of the original number?

(**A**) 10 (**B**) 12 (**C**) 14 (**D**) 16 (**E**) 18

19. The figure on the right shows a template from which a cube can be made. Which of the following shows the completed cube?



(**A**) 
(**B**) 
(**C**) 
(**D**) 
(**E**) 

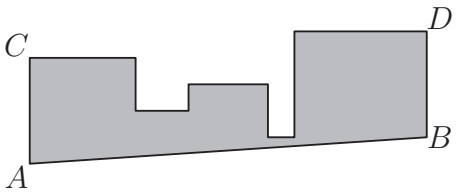
20. In the given addition problem, each letter used represents a single digit, and different letters represent different digits. What is the value of $A + B + C$?

$$\begin{array}{r} A\ B\ C \\ +\ A\ C\ B \\ \hline C\ 4\ A \end{array}$$

(**A**) 16 (**B**) 17 (**C**) 18
(**D**) 19 (**E**) 20

5 points

21. A shape is made from five touching squares with areas of 1 m^2, 4 m^2, 9 m^2, 16 m^2 and 25 m^2 in some order, whose bases all lie on some common line. The point A is a vertex of the left-hand square. Valeriu cuts the shape along the line AB, which is parallel to CD. What is the area of the remaining shape, as shown?

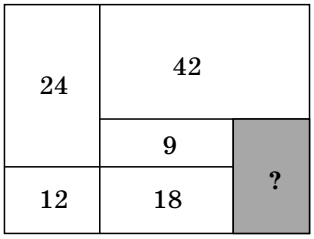


(**A**) 44.5 m^2 (**B**) 45.5 m^2 (**C**) 46.5 m^2
(**D**) 47.5 m^2 (**E**) 48.5 m^2

22. I have two old watches, my grandfather's watch and my father's watch. My grandfather's watch loses 5 minutes every hour, and my father's watch gains 5 minutes every hour. Yesterday I set them to the correct time at 09:00 PM. When I woke up the next morning, my grandfather's watch showed 08:00 AM. What time did my father's watch show at that moment?

(**A**) 9:00AM (**B**) 9:30AM (**C**) 10:00AM (**D**) 10:30AM (**E**) 11:00AM

23. The rectangle shown is divided into six rectangular parts. The areas of five of the parts are given. What is the area of the sixth part?



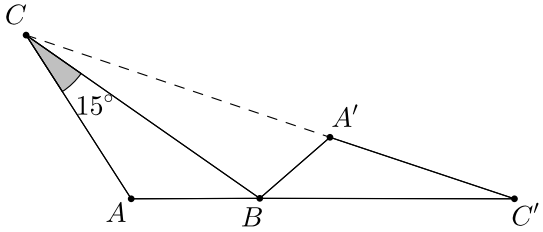
(**A**) 14 (**B**) 15
(**C**) 16 (**D**) 18
(**E**) 20

24. Anna, Bea, and Cili went to a stationery store to buy pens and rulers. Each of them bought exactly 10 items in total. Anna bought twice as many pens as Cili bought rulers. Bea bought twice as many pens as Anna bought rulers. Altogether, the girls bought an even number of rulers. How many pens did Bea buy?

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

25. Triangle $A'BC'$ is obtained by rotating triangle ABC around vertex B. The points C, A', and C' lie on a straight line as do the points A, B and C'. The size of $\angle BCA$ is 15°. What is the size of $\angle BAC$?

(**A**) 105° (**B**) 115° (**C**) 120° (**D**) 135° (**E**) 140°



26. A large cube with a side-length of 4, consists of small cubes with a side-length of 1. What is the smallest number of small cubes that need to be removed from the large cube to increase the surface area of the shape by 50%?

(**A**) 6 (**B**) 8 (**C**) 10 (**D**) 12 (**E**) 18

27. How many of the four statements below are true?

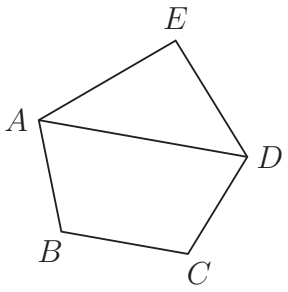
(1) Exactly two of the statements are false.
(2) This statement is true.
(3) The previous statement is true.
(4) The three statements above are false.

(**A**) 0 (**B**) 1 (**C**) 2 (**D**) 3 (**E**) 4

28. Deindra wants to arrange the five numbers 1, 2, 3, 4, and 5 into a row such that the last number is odd, and the sum of any three consecutive numbers is divisible by the first number of the three. How many such arrangements could she make?

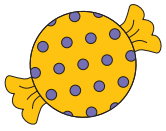
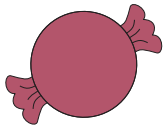
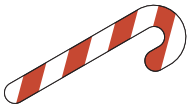
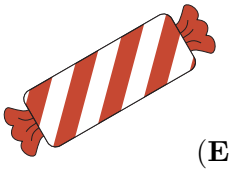
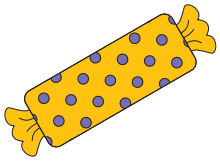
(**A**) 2 (**B**) 3 (**C**) 4 (**D**) 5 (**E**) 6

29. Bernhard wants to draw a pentagon $ABCDE$ with diagonal AD, in which $EA = ED$ and $AB = CD$. He wants AD to be parallel to BC. Unfortunately, his drawing is not very accurate.
Also, he wants $\angle AED$ and $\angle ADC$ to be equal, and for the ratio of the sizes of $\angle EDA$ and $\angle BAD$ to be $3 : 2$. In an accurate diagram, what would be the size of $\angle DCB$?



(**A**) 135° (**B**) 125° (**C**) 120° (**D**) 115° (**E**) 110°

30. Anna, Elsa, and their mother are playing a reasoning game. Their mother selects one sweet from the options shown below. She tells Anna the pattern on the wrapper and tells Elsa the shape of the sweet. The mother first asks: "Do you know which sweet I picked?" Both Anna and Elsa answer "No". The mother asks a second time: "Now do you know?" Again both answer "No". However, when the mother asks a third time, both Anna and Elsa answer correctly at the same time. Which sweet was selected?

(**A**)  (**B**)  (**C**)  (**D**)  (**E**) 

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