



SAMPLE QUESTIONS

Grades 5-6

1-

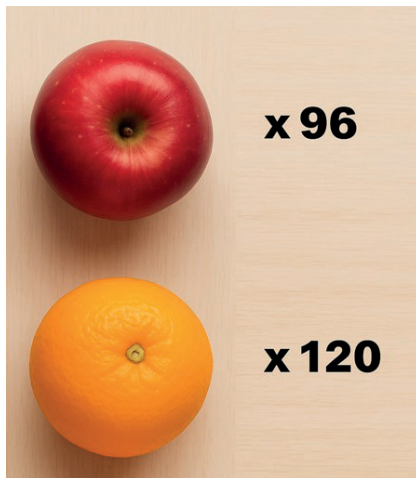
The positive factors of a number are the numbers that divide it exactly.

For example, the positive factors of 6 are 1, 2, 3, and 6.

How many positive factors does the number 36 have?

- A) 7 B) 8 C) 9 D) 10
-

2-



A shopkeeper has 96 apples and 120 oranges. He wants to pack them into identical boxes without mixing apples and oranges. He also wants all of the boxes to be completely full. What is the largest number of fruits that could be in each box?

- A) 12
B) 16
C) 24
D) 48

3-



Arina has a €100 bill to spend on ornaments for her friends during her visit to Paris. Each ornament costs €8.75. If she buys as many ornaments as possible, how much change will she receive?

- A) €1.25
- B) €2.50
- C) €3.75
- D) €5.00

4-

What is the value of $48 \div 6 + 10$?

- A) 3
- B) 6
- C) 16
- D) 18

5- Which fraction is the largest?

A) $\frac{1111}{2222}$

B) $\frac{2222}{4444}$

C) $\frac{4444}{8888}$

D) They are all the same

6-



A jet pilot flies a certain distance in 4 hours at a speed of 1200 km/h. By what percentage should the pilot decrease their speed to cover the same distance in 5 hours?

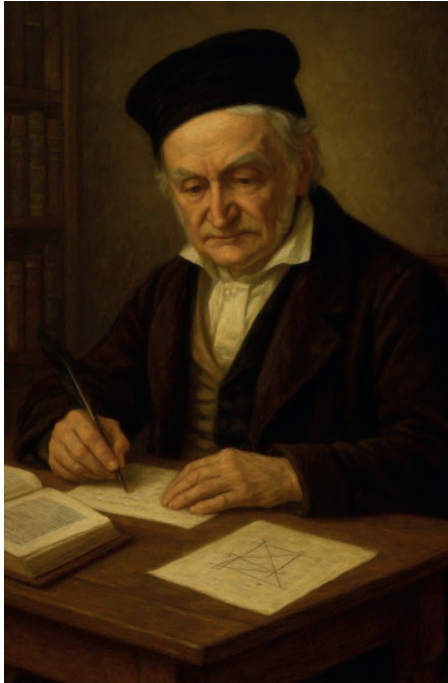
A) 15%

B) 18%

C) 20%

D) 25%

7-



Carl Friedrich Gauss (1777–1855) was a brilliant German mathematician and scientist. As a child, he amazed his teachers with his quick problem-solving skills. He grew up to make important discoveries in math, astronomy, and science, earning the nickname “Prince of Mathematicians.”

Starting with the letter P and moving right, what is the 2026th letter in the sequence below?

PRINCEOFMATHEMATICIANSPRINCEOFMATHEMATICIANS.....

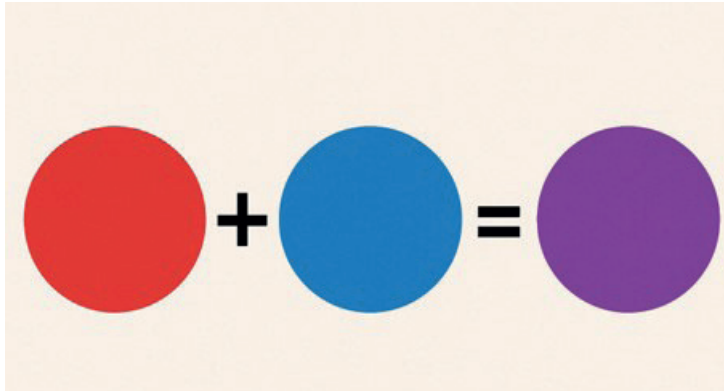
A) T

B) R

C) A

D) P

8-



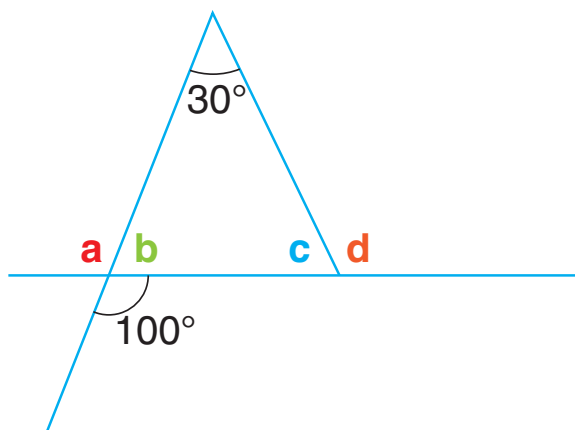
An art studio creates a unique shade of purple by mixing blue and red paint in fixed proportions.

In one batch, when 24 litres of blue paint are used, 6 litres out of 36 litres of red paint are left unused.

Accordingly, if all 50 litres of red paint are used in another batch, how many litres from the 44 litres of blue paint will remain?

- A) 4 B) 6 C) 8 D) 10

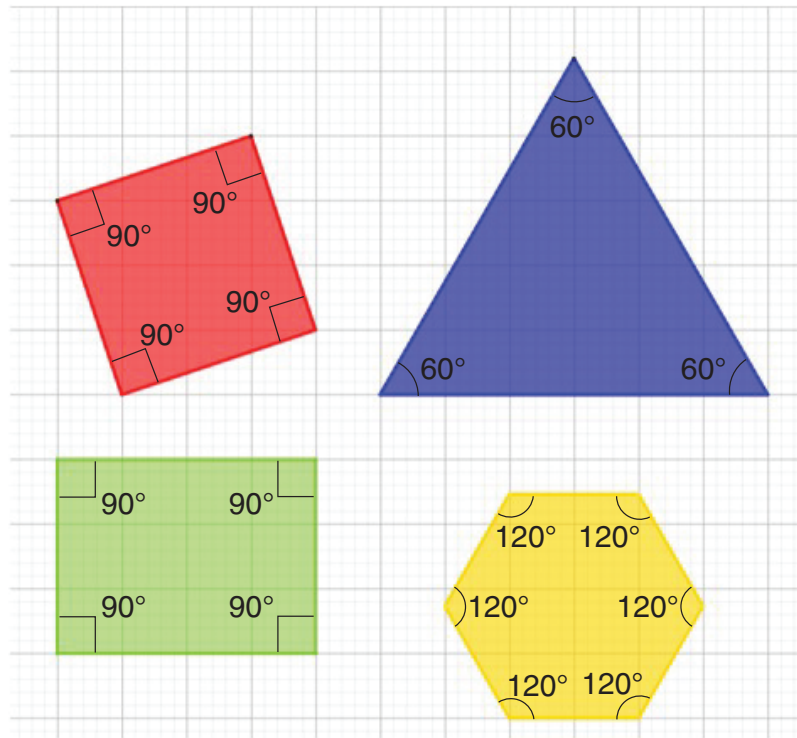
9-



Which angle in the diagram is the largest?

- A) a B) b C) c D) d

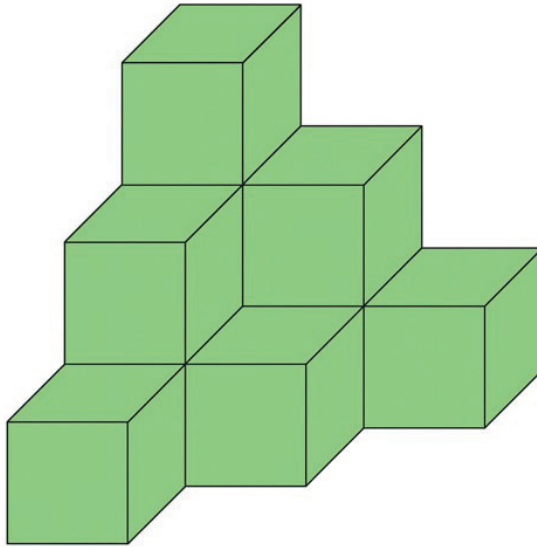
10-



What is the colour of the shape that is not a regular polygon shown on the grid paper above?

- A) Red
- B) Blue
- C) Green
- D) Yellow

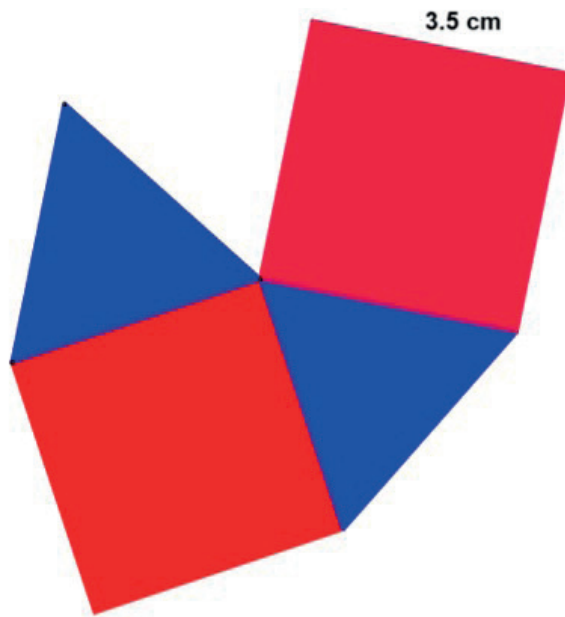
11-



How many more unit cubes are needed to obtain a large cube from the shape above?

- A) 15
- B) 16
- C) 17
- D) 18

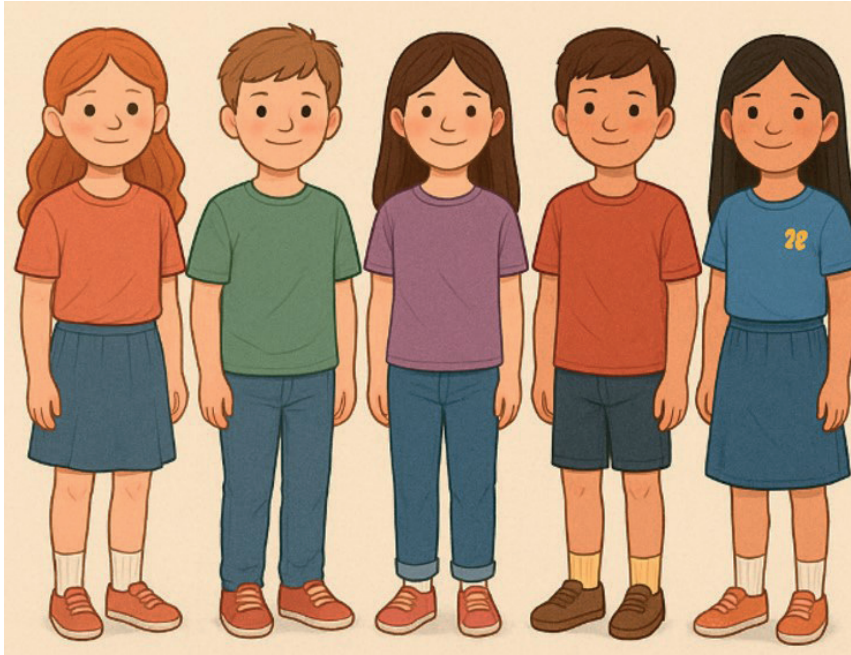
12-



What is the perimeter of the shape formed of equilateral triangles and squares, each side measuring 3.5 cm?

- A) 21 cm
- B) 24.5 cm
- C) 28 cm
- D) 31.5 cm

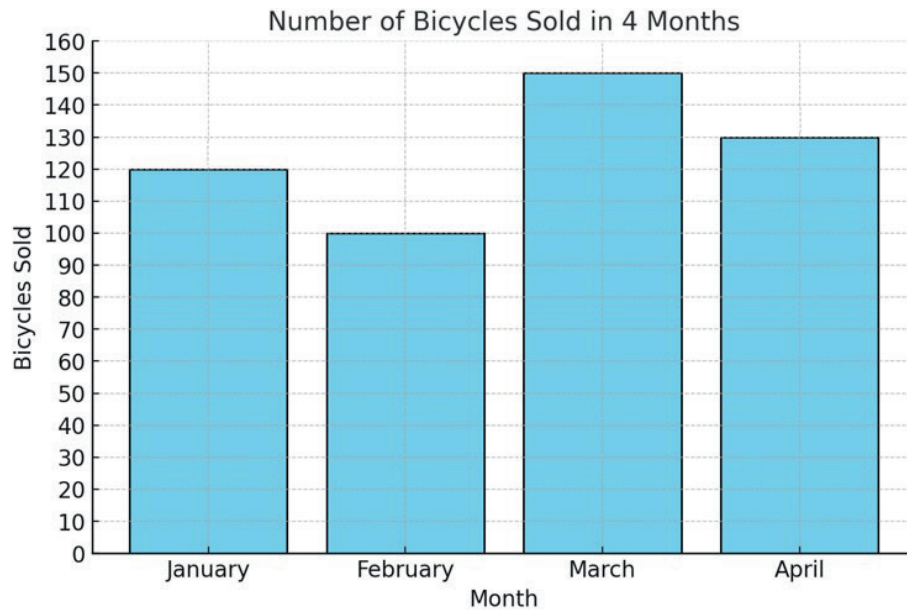
13-



The average weight of 5 students is 40 kg. If the total weight of 4 of them is 158 kg, what is the weight of the 5th student?

- A) 38 kg
- B) 40 kg
- C) 42 kg
- D) 44 kg

14-



The bar graph above shows the number of bicycles sold in 4 months:

What is the total number of bicycles sold in these 4 months?

- A) 480
- B) 490
- C) 500
- D) 520

15-



Jane wants to create a password for her credit card using the digits of her birth year, 2002. However, the bank does not allow customers to use their birth year as a password.

Accordingly, how many different passwords can Jane create using only the digits of her birth year, excluding 2002 itself?

- A) 4
- B) 5
- C) 6
- D) 8

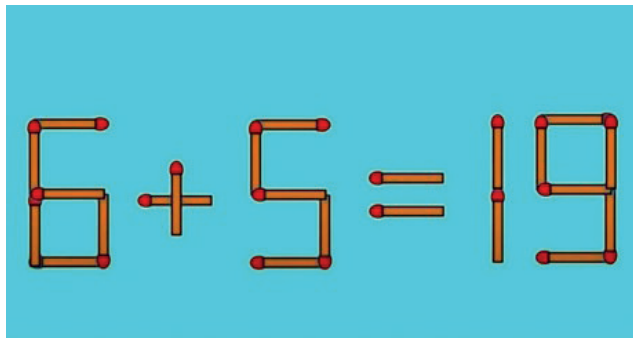
16-



Two coins are tossed at the same time. What is the probability of getting at least one head?

- A) $\frac{1}{2}$ B) $\frac{3}{4}$ C) $\frac{1}{3}$ D) $\frac{2}{3}$

17-



By moving only one matchstick, which of the following actions will not make the equation correct?

- A) Take the top-left matchstick from the 9 and place it on the top-right of the 6.
 B) Take the bottom-left matchstick from the 6 and place it on the bottom-left of the 9.
 C) Take the top-right matchstick from the 9 and place it on the top-right of the 5.
 D) Take the vertical matchstick from the plus sign (+) and place it on the equal sign (=) to turn it into a "not equal to" sign ($\neq$).

18-

You are told: "If it rains, the ground gets wet."**If the ground is not wet, what can you logically conclude?**

- A) It definitely rained
 - B) It might have rained
 - C) It did not rain
 - D) The ground absorbed the rain
-

19-



Suppose you start watching "The Godfather Part II", a 202-minute film that won 6 Oscars, at 9:48 pm. If you watch the entire movie, when will you be finished?

- A) 01:10 AM
- B) 01:20 AM
- C) 01:30 AM
- D) 01:40 AM

20-



Jessie and Vicky visit the animal shelter every 5th day. If they visit on a Monday, how many days later will it be the next time they visit on a Monday?

A) 10

B) 15

C) 20

D) 35