

Name: \_\_\_\_\_

Test Date: \_\_\_\_\_

**11+ Maths Y5****Mock Test 1****Total time allotted: 50min    Total questions: 45**

**1** Calculate the difference between the product of 12 and 11 and the sum of 12 and 11

- A** 23                      **B** 276                      **C** 109                      **D** 155                      **E** 132

**2** The list of prime numbers is: 2,3,5,7,11,13 ... ..  
How many prime numbers are there in the fifties?

- A** 1                      **B** 2                      **C** 3                      **D** 4                      **E** 0

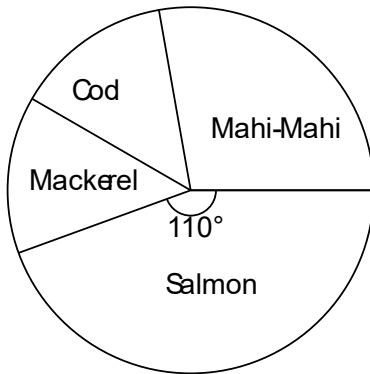
**3**  $2 \times 3^2 \times 5 \times \underline{\hspace{2cm}} = 2160$   
What number goes in the empty space?

- A** 80                      **B** 72                      **C** 24                      **D** 12                      **E** 30

**4** Which one of these statements is false?

- A** 30% of 690 is 207  
**B**  $8^3 = 512$   
**C**  $2^4 = 4 \times 4$   
**D**  $\frac{1}{5} - \frac{1}{10} = 0.11$   
**E**  $32 \times 31 > 30 \times 33$

- 5 A takeaway shop has choice of four types of fishes. The pie chart below shows the orders per type of fish on a given day. On the day there were total 55 orders for Salmon. How many orders for fish were given on the day altogether?



- A 180                      B 165                      C 360                      D 120                      E 110

- 6 A carton of 12 cola cans costs £4.29. How much is this per can (to the nearest pence)?

- A 40p                      B 35p                      C 3.6p                      D 36p                      E 34p

- 7 Dan distributes £40 between his three children. Karla gets  $\frac{1}{5}$  of the money, Viva gets 32% of the money and the rest of the money goes to Tina. How much money did Tina get?

- A £19.40                      B £19.80                      C £18.20                      D £19.20                      E £18

- 8 In a local council there are 25 sports clubs. There is a total of 11250 members belonging to these clubs. What is the average number of members per club?

- A 400                      B 450                      C 475                      D 500                      E 600

9 Which of these lists is not in an ascending order?

A  $\frac{1}{2}, \frac{3}{5}, \frac{6}{7}$

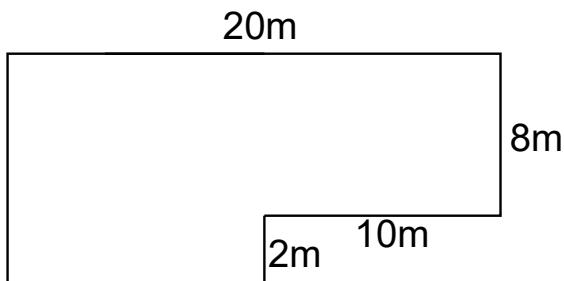
B  $\frac{1}{100}, \frac{1}{50}, \frac{2}{25}$

C  $\frac{3}{8}, \frac{4}{7}, \frac{5}{9}$

D  $\frac{1}{4}, \frac{2}{5}, \frac{1}{2}$

E  $\frac{5}{10}, \frac{5}{8}, \frac{4}{6}$

10 Sam draws the below shape. What is the perimeter of this shape?



A 90m

B 50m

C 60m

D 100m

E 80m

11 The population of the four cities in 2023 are given below:

Manchester	2,791,105
Birmingham	2,665,100
Leeds	1,928,661
Glasgow	1,698,088

Which combination of cities had a population closest to 4,000,000?

A Manchester and Birmingham

B Birmingham and Leeds

C Leeds and Glasgow

D Manchester and Glasgow

E Leeds and Manchester

**12** Calculate:  $2\frac{3}{8} + 3\frac{1}{12} - \frac{1}{4}$

**A**  $5\frac{11}{24}$

**B**  $4\frac{5}{24}$

**C**  $5\frac{5}{12}$

**D**  $5\frac{5}{12}$

**E**  $5\frac{5}{24}$

**13** What is the remainder when 2000 is divided by 11?

**A** 7

**B** 9

**C** 8

**D** 6

**E** 5

**14** A cheetah is one of the fastest moving animals. It can run at a speed of 100km/hr. How long will a cheetah take to run 200m

**A** 7.2 sec

**B** 12 sec

**C** 14.4 sec

**D** 10 sec

**E** 8.33 sec

**15**  $x = 10, y = 20, z = 30$ . What is the value of  $\frac{x+z}{y} + y$ ?

**A** 11

**B** 25

**C** 22

**D** 401

**E** 21

**16** In a college the students come to the college either by car or they cycle to the college. On a certain day there were 40 vehicles parked with a total of 140 wheels. How many cycles were there in the college parking on the day?

**A** 10

**B** 20

**C** 30

**D** 8

**E** 12

**17** The first commercially successful steam engine, the Newcomen engine, was invented in 1712. How many years ago was that? Take current year = 2025

- A 323                      B 314                      C 313                      D 213                      E 203

**18** A postcode lottery ticket costs £3. The company running the lottery spends £30,000 on advertisements and promotions. Further £10,000 is spent on operating the lottery. How many tickets does the company need to sell to make a profit of £20,000?

- A 20000                      B 2000                      C 6667                      D 6000                      E 18000

**19** Ms Taylor wants to hire a helper for daily chores. She estimated the following activities and time that she would need help with every day. If the helper is paid £18 per hour, what would be the cost of one day's work?

Laundry	1 hour
Cooking	35 minutes
Cleaning inside	50 minutes
Cleaning outside	35 minutes
Other tasks	30 minutes

- A £35                      B £33                      C £60                      D £62.5                      E £63

**20** A map has a scale of 1: 200000. Sutton and Heathrow airport are 24cm apart on the map. A taxi charges £3 per km. What will be the total cost of taxi from Sutton to Heathrow?

- A £120                      B £72                      C £144                      D £14.40                      E £288

**21** Cinema tickets for 2 adults and 3 kids cost £66. For 3 adults and 2 kids the tickets cost £74. What is the price of ticket for 1 kid?

A £18

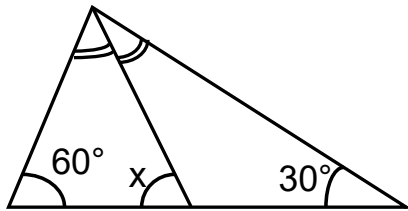
B £10

C £20

D £8

E £12

**22** In the figure below calculate the value of the angle  $y$ . The angles marked as  $\sphericalcap$  are equal to each other.

A  $70^\circ$ B  $30^\circ$ C  $40^\circ$ D  $45^\circ$ E  $75^\circ$ 

**23** Tom cycles to his office at 15km/hr. His office is 6km away from his home. He needs to reach the office by 8:20AM. Latest what time can he leave from home to reach the office on time?

A 07:00AM

B 07:56AM

C 07:40AM

D 6:50AM

E 07:52AM

**24** A  $4 \times 4 \times 4$  cube made up of small cubes is painted green from outside. The small cubes are then taken apart. How many small cubes will have none of their faces painted?

A 8

B 27

C 4

D 1

E 12

**25** A sugarcane plant grows 150cm every month and is harvested in 18 months. What is the height of the plant at the time of harvesting?

- A** 270m                      **B** 2.7m                      **C** 0.27m                      **D** 27m                      **E** 13.5m

**26** The flight from London Heathrow to Stockholm takes 2 hrs 35 min. The flight is scheduled at 2: 30PM. You turn up to the airport at 12: 30PM and find that the flight is delayed by 45 min. Stockholm is 1hr ahead of London. At what Stockholm time will the flight now land in Stockholm.

- A** 17: 05                      **B** 18: 05                      **C** 17: 50                      **D** 18: 50                      **E** 19: 05

**27** Which of these cars have the fastest speed? The information below tells you what distance each car can travel in the time given.

Car *A*                      100km in 20 min

Car *B*                      210km in 30 min

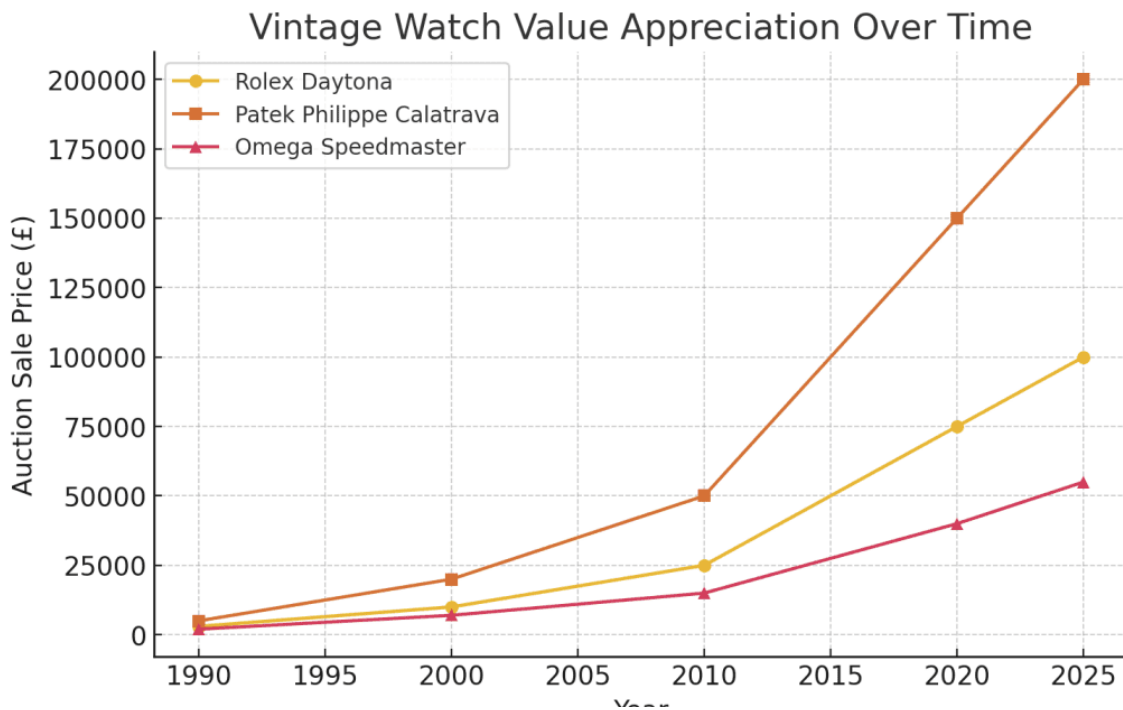
Car *C*                      90km in 15min

Car *D*                      5km in 1min

Car *E*                      16km in 2min

- A** Car *A*                      **B** Car *B*                      **C** Car *C*                      **D** Car *D*                      **E** Car *E*

- 28 The graph shows the auction sale price of three vintage watches over the years. By what percentage did the sale price of Patek Philippe Calatrava increase between 2020 and 2025?



- A 25%                      B 30%                      C 33.33%                      D 40%                      E 200%

- 29 Referring to the data in **question 28**, what was the average price of the three watches in the year 2020?

- A £87500                      B £85000                      C £80000                      D £100000                      E £50000

- 30** A factory makes light bulbs and keeps a record of bulbs made and sold each month. How many bulbs are left unsold at the end of June?

Month	March	April	May	June
Bulbs sold	2000	7000	8000	4000
Bulbs made	4000	5000	10000	5000

- A 15000      B 150      C 30000      D 3000      E 1500

- 31** Kiara buys a photo frame. The frame can fit a photo of 6 inch by 8 inch in the shaded area as shown. The width of the frame wood around the photo is 2 inches throughout. What is the total area of the photo frame in square inches?



- A 120      B 80      C 48      D 52      E 64

- 32** A car tank can hold 45 litres of fuel. The car can travel 15 km per litre of fuel. How much maximum distance the car can cover without refilling the tank?

- A 337.5km      B 450km      C 675km      D 600km      E 640km

- 33** 10 men can build a wall in 20 days. In how many days can 8 men build the same wall?

- A 16      B 25      C 20      D 4      E 24

**34** How many complete weeks are there between start of 2025 and 27<sup>th</sup> June 2025?

- A 24                      B 25                      C 26                      D 23                      E 27

**35** A sunflower has 1400 seeds in its centre. The seeds cover an area of  $350\text{cm}^2$ . How many seeds are there for each square cm?



- A 4                      B 3                      C 8                      D 0.25                      E 0.5

**36** Maya has four ropes of different sizes. Find the difference between the length of the longest and shortest rope

- 2.703m                      2.073m                      2.713m                      2.013m
- A 6.9cm                      B 7cm                      C 69cm                      D 64cm                      E 70cm

**37** In a school two rewards are given every month – a prize worth £12.50 for best performer in sports and a prize worth £20 for best overall performer in Maths. What would be the school budget for the whole year to cover the cost of these prizes?

- A £270                      B £240                      C £150                      D £390                      E £102

**38** In December, the morning temperature in Edinburgh falls by  $0.5^{\circ}\text{C}$  every day. The morning temperature on 1<sup>st</sup> December was  $12^{\circ}\text{C}$ . What will be the morning temperature on 21<sup>st</sup> December?

- A  $10^{\circ}\text{C}$                       B  $-2^{\circ}\text{C}$                       C  $2^{\circ}\text{C}$                       D  $0^{\circ}\text{C}$                       E  $-3^{\circ}\text{C}$

**39** A carton of cola cans contains 12 cans. 6 cartons can fit in a large cube box. Each can has 300ml of drink. What is the amount of drink in 10 cube boxes.

Use: 1 litre =  $1000\text{cm}^3$

- A  $21600\text{cm}^3$   
B  $18000\text{cm}^3$   
C  $216000\text{cm}^3$   
D  $2160\text{cm}^3$   
E  $216\text{cm}^3$

**40** Tom needs 5 milk cartons for his coffee shop every day. Each bottle costs  $\pounds 1.25$ . He ordered the stock for the whole week and paid with a  $\pounds 50$  note. How much change will he get back?

- A  $\pounds 6.25$                       B  $\pounds 6.50$                       C  $\pounds 7.25$                       D  $\pounds 7.50$                       E  $\pounds 6.75$

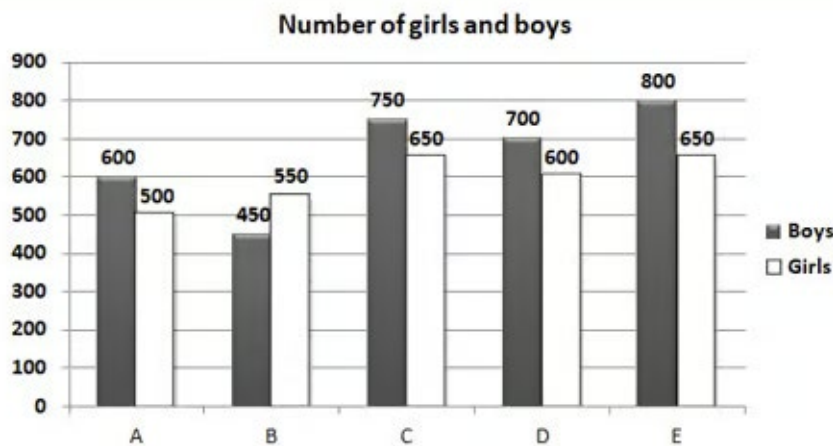
**41** Charlie's birthday was on 5<sup>th</sup> September 1990. How many years old is Charlie on 27<sup>th</sup> June 2025?

- A 35                      B 34                      C 33                      D 36                      E 24

42 Which of the following statements is FALSE?

- A You can have a triangle with sides 10cm, 12cm and 1cm
- B A kite has one line of symmetry
- C A rectangle has 2 lines of symmetry
- D A cube box which is open from the top has 5 faces
- E The sum of internal angles of a quadrilateral is  $360^\circ$

43 The data below shows the number of boys and girls in five schools *A, B, C, D and E*.  
What is the average number of boys in the schools?



- A 400
- B 600
- C 660
- D 590
- E 2500

44 Referring to the data in **question 42**, what is the percentage of schools in which number of boys is more than number of girls?

- A 20%
- B 40%
- C 60%
- D 80%
- E 100%

45 Referring to the data in **question 42**, approximately what percentage of total students in the five schools are girls?

- A 54%
- B 60%
- C 40%
- D 50%
- E 65%