

Mock Test Paper 2 Instructions

Sections:

- Section 1: Maths - 30mins
 - Section 2: Non-Verbal Reasoning - 20mins
-

INSTRUCTIONS – PLEASE READ CAREFULLY

1. Clear instructions will be given before each section begins.
2. Use a **HB pencil**, eraser, and sharpener only.
3. You are **NOT** allowed to use calculators, rulers, mobile phones, protractors, or any study aids.
4. **All answers must be recorded on the separate answer sheet provided.**
5. Do **NOT** write answers in this question booklet.
6. **Mark only one answer per question**, unless the question specifically asks you to choose two.
7. If you make a mistake, **rub it out completely with an eraser**. Do **not** cross it out.
8. **Do not use this question booklet for rough work.** A blank sheet will be provided.
9. Try to answer every question. If you're unsure, skip it and come back later if time allows.
10. If you finish early, go back and check your answers.
11. **Do not turn the page until you are told to begin.**

Section 1 - Maths (Time Allowed - 30mins)

1. Last year, the total visitors to a theme park were **seven million, twenty-five thousand, six hundred and ten**.

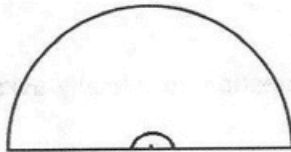
What is this in figures?

- A) 7,352,610 ☒ B) 7,025,610 C) 7,235,610 D) 7,325,016 E) 7,325,601
-

2. Which of the following numbers can be divided exactly by 4, 6 and 7?

- A) 98 B) 56 C) 42 D) 82 ☒ E) 84
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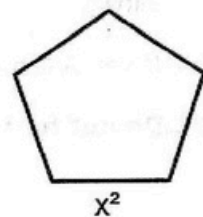
3. How many 30° angles fit together to make this semi circle?



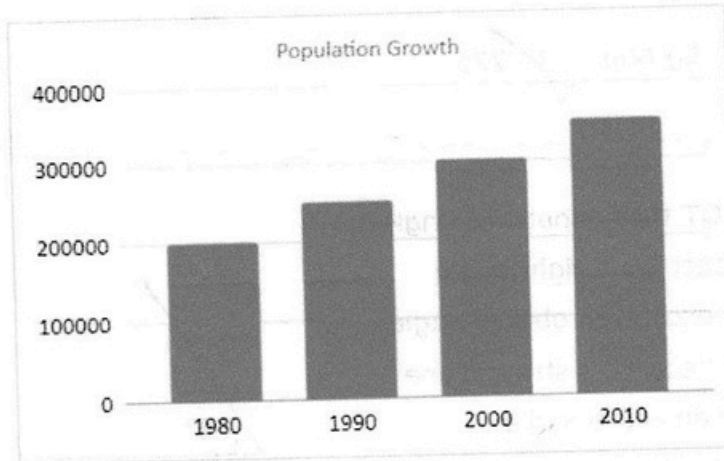
- A) 4 ☒ B) 6 C) 8 D) 12 E) 10
-

4. The perimeter of this regular pentagon is 80cm. What is the value of x ?

- ☒ A) 4cm B) 2cm C) 3cm D) 5cm E) 6cm



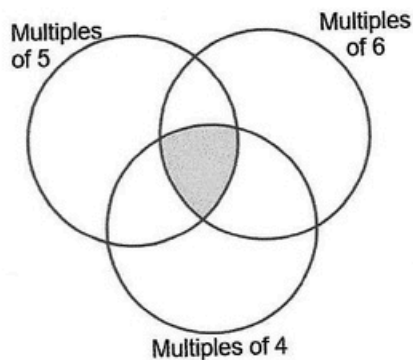
5. The chart shows the increase in population in Bristol City from 1980 to 2010.



In percentage, how much did the population increase from 1990 to 2000?

- A) 30% ☒ B) 20% C) 25% D) 40% E) 15%

6. Which number can go in the shaded region of the venn diagram?



- A) 30 B) 20 C) 48 D) 80 ☒ E) 60

7. What is $9.1 - 0.21$?

- A) 8.19 B) 9.11 C) 8.99 ☒ D) 8.89 E) 8.91

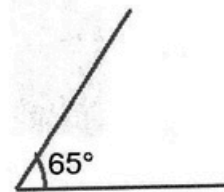
8. An electric heater uses 2 pence worth of electricity every hour. The heater is left on from 8 am on Saturday until 8 pm on Sunday.

How much does the electricity cost?

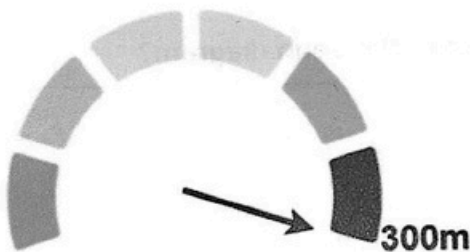
- A) 24p B) 36p C) 48p D) 60p ☒ E) 72p

9. Which of the statements is **NOT** true about this angle?

- A) If increased by 25° it will become a right angle
 B) If increased by 36° it will become an obtuse angle
☒ C) If increased by 125° it will become a straight line
 D) If doubled, it won't remain an acute angle
 E) It can become a part of a right angled triangle



10. What is the range of each block of this speedometer?



- A) 30m B) 25m C) 45m ☒ D) 50m E) 60m

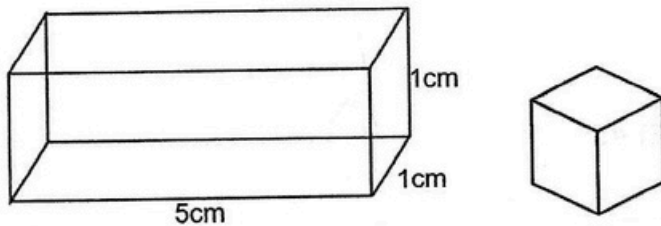
11. What is 3.4×2.1 ?

- A) 8.14 B) 6.14 ☒ C) 7.14 D) 7.24 E) 8.24

12. Which of the following values is the largest?

- A) 0.05 B) $\frac{1}{20}$ C) 4.99% D) $\frac{1}{12}$ E) 0.045

13. The small cube shown below has 0.5cm sides. How many small cubes will fit into the bigger cuboid?



- A) 10 B) 40 C) 25 D) 20 E) 24

14. All the children in Class 6 were asked how many books they own. The results were recorded in the table below.

Number of books	Number of children in the class
0	3
1	10
2	7
3	4

Each child donates one bookmark for each book they own.

How many bookmarks were donated in total?

- A) 28 B) 30 C) 25 D) 32 E) 36

15. Jamie starts saving £2 daily on 1st January 2024. In which month would he have saved £200?

- A) March B) April C) May D) September E) October

16. x is a whole number and the following statement is true:

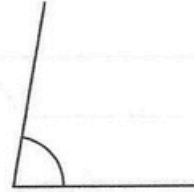
$$x < 3^3 - 2 \times 6 + 3$$

What is the largest number that x could be?

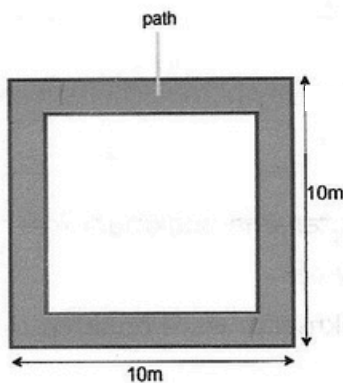
- A) 12 B) 14 ☒ C) 17 D) 18 E) 9

17. What is the likely size of this angle?

- A) 95° B) ☒ 80° C) 90° D) 50° E) 45°



18. The figure shows a 2m wide path shaded in grey.



The outer sides are 10m x 10m

What is the perimeter of the inner square?

- A) 30m B) ☒ 24m C) 28m D) 32m E) 36m

19. Temperatures from last week:

27°C , 28°C , 27°C , 29°C , 29°C , 28°C , 26°C .

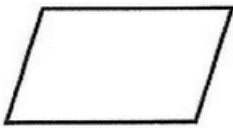
Calculate median.

- A) 26°C B) 27°C C) ☒ 28°C D) 29°C E) 27.5°C

20. A coin is tossed twice. What is the probability of getting heads both times?

- ☒ A) $\frac{1}{4}$ B) $\frac{1}{2}$ C) $\frac{1}{6}$ D) $\frac{1}{8}$ ☒ E) $\frac{1}{14}$
-

21. How many lines of symmetry does this parallelogram have?



- A) 2 B) 3 C) 4 ☒ D) 0 E) 1
-

22. Which of these pairs of numbers are equally distant from 5?

- A) 5.01 and 4.91
☒ B) 5.01 and 4.99
 C) 5.11 and 4.91
 D) 5.11 and 4.99
 E) 5.19 and 4.91
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23. Tia is three times as old as her younger sister. In 2 years, she will be twice as old as her younger sister.

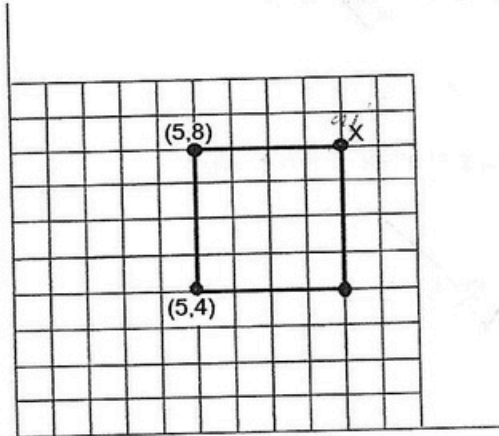
What is Tia's current age?

- ☒ A) 6yrs B) 5yrs C) 10yrs D) 12yrs E) 8yrs
-

24. What is the total cost of 5 zoo tickets at £2.99 each?

- A) £10.50 ☒ B) £14.95 C) £14.85 D) £14.75 E) £9.99
-

25. The square shown in the diagram is reflected on y axis.



What are the new coordinates of point X?

- A) (-8,10) B) (-9,10) ☒ C) (-9,8) D) (-10,8) E) (-9,9)

26. Arrange the following in ascending order: 0.65, $\frac{5}{6}$, $\frac{3}{4}$, 70%, $\frac{4}{5}$

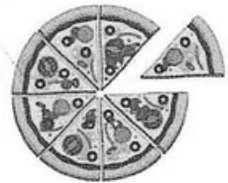
- ☒ A) 0.65, 70%, $\frac{3}{4}$, $\frac{4}{5}$, $\frac{5}{6}$
 B) 0.65, $\frac{3}{4}$, 70%, $\frac{4}{5}$, $\frac{5}{6}$
 C) 70%, 0.65, $\frac{3}{4}$, $\frac{4}{5}$, $\frac{5}{6}$
 D) 0.65, $\frac{3}{4}$, $\frac{4}{5}$, 70%, $\frac{5}{6}$
 E) $\frac{3}{4}$, 0.65, 70%, $\frac{4}{5}$, $\frac{5}{6}$

27. A pizza was cut in 8 equal parts. Ryan ate a quarter of the pizza.

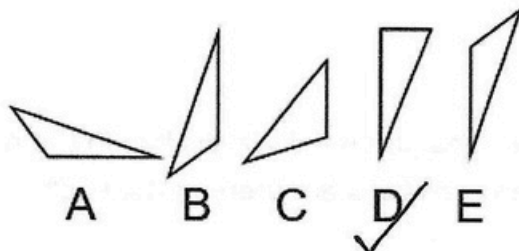
Sara then had $\frac{1}{3}$ of the remaining pizza.

What percentage of the total pizza is still left?

- A) 30% B) 40% ☒ C) 50% D) 20% E) 45%



28. Which of the triangles below does not have an obtuse angle?



29. See below the bus timetable from City Central to Riverdale

City Central	Westfield	Oakbridge	Lakeside	Riverdale
6:10	6:30	6:45		7:15
6:40	7:00		7:30	7:45
7:00	7:20	7:35	7:50	8:05
7:20	7:40		8:10	8:25
7:40	8:00	8:15		8:45

Leena needs to reach Oakbridge by 8am in the morning. What time must she leave the City Central station?

- A) 06:10 B) 06:40 C) 07:00 D) 07:20 E) 07:40

30. A recipe for 24 cupcakes requires 300g of flour.

How much flour would be needed to make 60 cupcakes?

- A) 500g B) 600g C) 700g D) 750g E) 800g

31. A number from the options below is divisible exactly by 3, 4 and 7. Which number could it be?

- A) 72 B) 91 C) 48 D) 84 E) 87

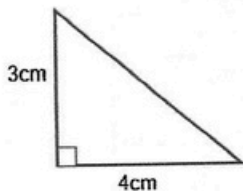
32. $9.1 \div 0.7 = ?$

- A) 1.33 B) 13.3 ☒ C) 13 D) 12 E) 1.3

33. A magician has blue, red, and green balls in his bag in the ratio 3:4:5. If he has 60 balls in total, how many red balls are there in the bag?

- A) 12 B) 15 ☒ C) 20 D) 25 E) 24

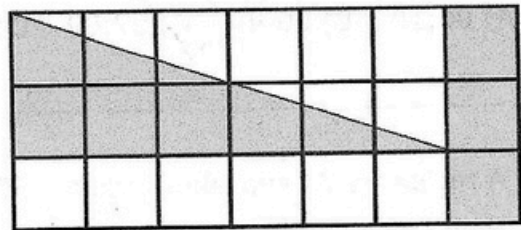
34. The area of this triangle is:



- A) 12 cm^2 B) ☒ 6 cm^2 C) 7 cm^2 D) 9 cm^2 E) 8 cm^2

35. What fraction of this image is shaded?

- ☒ A) $3/7$ B) $1/4$ C) $2/3$ D) $1/5$ E) $1/6$



36. What is the likely width of a standard door?

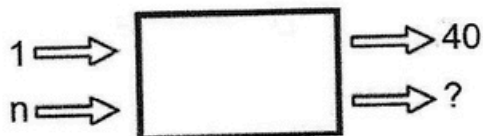
- A) 100mm B) 35cm C) 0.2m ☒ D) 90cm E) 2.4m

37. Sharon has a £20 note. She buys 12 pencils and a Harry Potter book. After shopping, she has £2 left. If each pencil costs £0.50, how much did the Harry Potter book cost?
A) £8 B) £10 C) £11 D) £12 E) £9
-

38. What is $\frac{3}{5}$ as a percentage?
A) 55% B) 35% C) 60% D) 65% E) 45%
-

39. 16 32 64
The three numbers above are alike in some ways. Select ONE of the following to say one way in which they are alike.
A) They are all cube numbers.
B) They are all prime numbers.
C) They are all square numbers.
D) They are all multiples of 8.
E) They are all odd numbers.
-

40. The function machine below adds 9 and then multiplies by 4. What will be the output when the input is n ?



- A) $4n+9$ B) $4n+36$ C) $9n+36$ D) $5n+36$ E) $n+36$
-

End of section

Do not go to the next page until told so