GL Maths Competitive Paper 01

Maths · Year 5 (ages 9-10) · GL-style competitive

Time allowed	45 minutes
Questions	40
Total marks	40
Name	_____
Date	_____

Instructions

- Practice timing: 45 minutes for 40 questions. The time is a practice guide only: GL Assessment does not publish exact timings or question numbers. This is an original practice paper, not an official GL Assessment paper.
- Competitive level: this paper uses the harder question styles, so scores will usually be lower than on the topic quick tests.
- Read each question carefully. Choose ONE answer from A, B, C, D or E and mark it on the answer grid at the end.
- Do not use a calculator. Use rough paper or the space on the page to work things out.
- Some diagrams are not drawn to scale, so use the numbers and labels, not your ruler.
- If a question is hard, move on and come back to it. Wrong answers do not lose marks, so try every question.

This is a practice paper written for the style and difficulty of the exam. It is not a past paper.

Maths - competitive paper

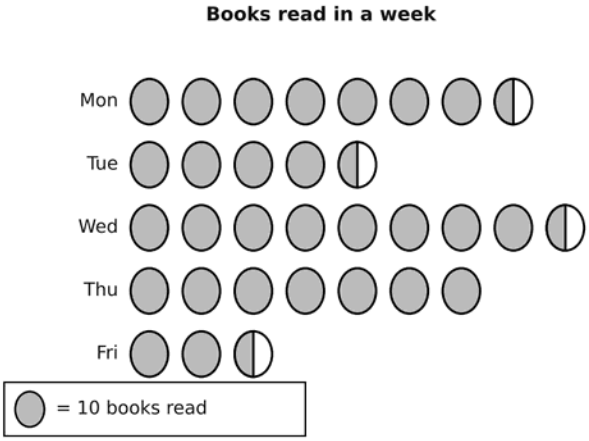
1. What is the largest whole number that rounds to 8,800 to the nearest hundred?

A 8,851 **B** 8,900 **C** 8,800 **D** 8,850 **E** 8,849

2. Which of these calculations has an answer closest to 493?

A 497 − 54 **B** 2 × 239 **C** 696 − 196 **D** 65 + 471 **E** 5 × 109

3. What is the total number of books read shown in the pictogram?

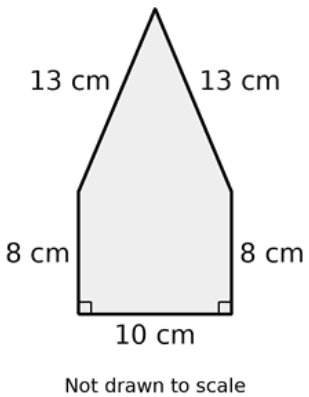


A 305 **B** 290 **C** 300 **D** 310 **E** 30

4. The numbers in the second row are always the same multiple of the numbers in the first row.
First row: 5 7 8 9
Second row: 35 49 ? 63
What number should replace the ?

A 63 **B** 49 **C** 56 **D** 15 **E** 48

5. This figure is made from a rectangle and a triangle. The two sloping sides are equal. What is the perimeter of the whole shape?



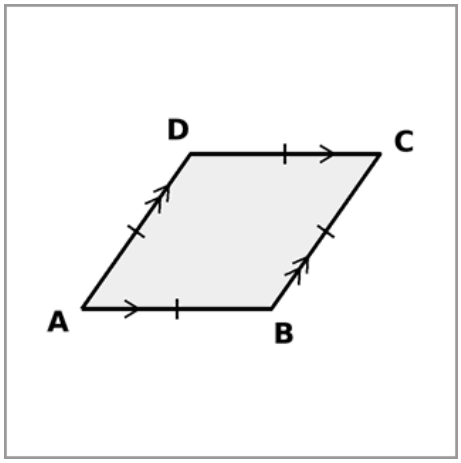
Not drawn to scale

A 50 cm **B** 62 cm **C** 36 cm **D** 52 cm **E** 39 cm

6. Find 1/5 of 65. Then subtract 11 from it. What is the answer?

A 2 **B** 54 **C** 12 **D** 13 **E** 24

7. ABCD is a rhombus with a perimeter of 20 cm. How long is the side AB?



A 16 cm **B** 7 cm **C** 5 cm **D** 10 cm **E** 4 cm

8. How many degrees are there in one-sixth of a turn?

A 120° **B** 30° **C** 60° **D** 360° **E** 15°

9. A number is made from 7 ten thousands, 3 hundreds, 2 tens, 8 ones. What is the number?

A 703,280 **B** 70,228 **C** 71,328 **D** 70,328 **E** 7,328

10. A ribbon is 100 cm long. A second ribbon is 1/5 of the length of the first. How long is the second ribbon?

A 40 cm **B** 20 cm **C** 18 cm **D** 80 cm **E** 500 cm

11. The clock shows the time in the afternoon. What will the time be 1 hour 55 minutes later? Give your answer in 24-hour time.



A 23:10 **B** 23:00 **C** 22:50 **D** 23:40 **E** 23:20

12. What is the next number in this sequence?
1, 4, 9, 16, 25, ...

A 46 **B** 36 **C** 49 **D** 34 **E** 38

13. Kavya is covering a rectangular kitchen floor that measures 3 m by 4 m. Each square tile has sides of 10 cm. How many tiles will Kavya need? (There is no gap and no cutting.)

A 2,400 **B** 120 **C** 12 **D** 140 **E** 1,200

14. Hamza has 2 kg of flour. Each loaf needs 300 g of flour. How many whole loaves can Hamza make?

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

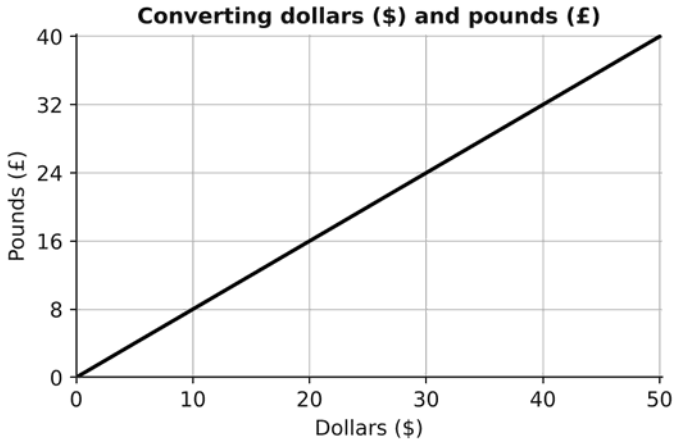
15. Which of these fractions is the largest?

A 2/5 **B** 5/10 **C** 7/10 **D** 6/10 **E** 1/5

16. The point (1, 7) is reflected in the vertical line x = 3. What are the coordinates of its image?

A (7, 1) **B** (4, 7) **C** (5, 7) **D** (7, 7) **E** (6, 7)

17. Use the graph to convert 40 pounds (£) to dollars ($).



A 60 dollars ($) **B** 50 dollars ($) **C** 40 dollars ($) **D** 51 dollars ($) **E** 30 dollars ($)

18. What is the largest number that is a factor of both 12 and 14?

A 3 **B** 1 **C** 84 **D** 2 **E** 4

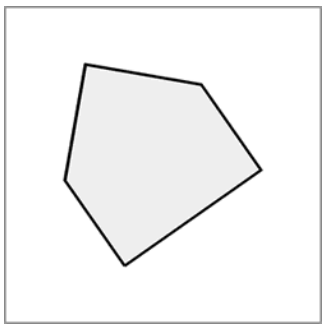
19. The point (3, 8) is reflected in the vertical line x = 6. What are the coordinates of its image?

A (9, 8) **B** (11, 8) **C** (8, 3) **D** (8, 8) **E** (10, 8)

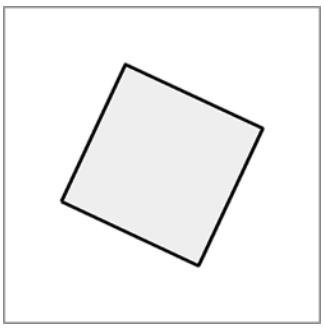
20. How many more faces does a pentagonal prism have than a cuboid?

A 3 **B** 6 **C** 1 **D** 7 **E** 13

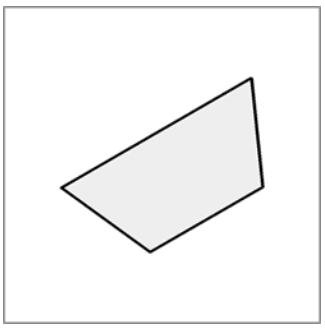
21. Which of these shapes has NO line of symmetry?



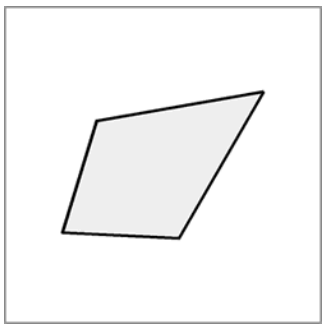
A



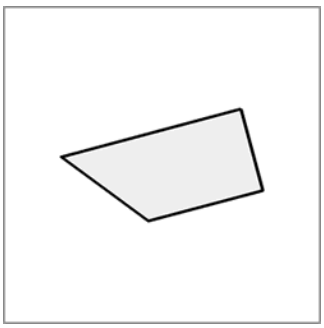
B



C

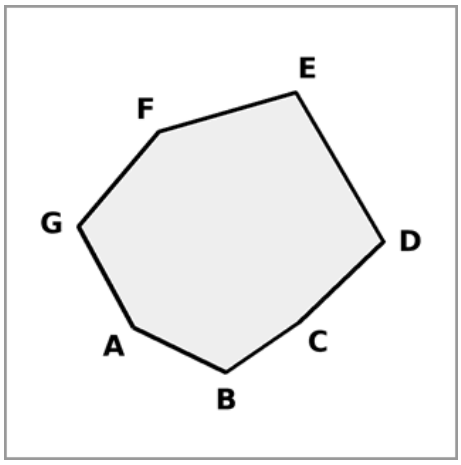


D



E

22. This polygon has 7 corners. How many of its interior angles are reflex?



A 0 **B** 7 **C** 3 **D** 1 **E** 2

23. Which of these calculations gives the largest answer?

A 2.1 × 10 **B** 0.74 ÷ 10 **C** 9.2 × 100 **D** 0.3 × 10 **E** 82 ÷ 10

24. Find the value of n. $6 \times n - 3 = 15$

A 3 **B** 18 **C** 2 **D** 4 **E** 1

25. Estimate 26,041 + 8,274 by rounding each number to the nearest thousand.

A 37,000 **B** 34,000 **C** 33,000 **D** 35,000 **E** 36,000

26. Write 28/5 as a mixed number.

A 6 3/5 **B** 5 3/5 **C** 3 5/5 **D** 4 3/5 **E** 5 5/3

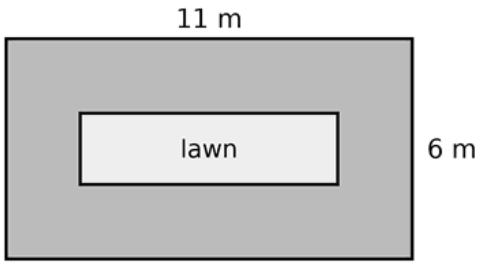
27. Tickets for a show cost £9 for an adult and £4 for a child. Grace's family buys 4 adult tickets and 3 child tickets and pays with £60. How much change do they get?

A £24 **B** £12 **C** £22 **D** £48 **E** £32

28. 2 bananas cost £1.80. How much do 8 of the same bananas cost?

A £1.86 **B** £14.40 **C** £7.10 **D** 90p **E** £7.20

29. A rectangular lawn has a path 2 m wide all the way round it. The outside of the path is 11 m by 6 m. What is the area of the path?



The grey path is 2 m wide all the way round. Not drawn to scale.

A 36 m² **B** 44 m² **C** 66 m² **D** 14 m² **E** 52 m²

30. Maya thinks of a number and subtracts 16 from it, then subtracts 15, then divides the result by 4. The answer is 1. What number did Maya think of?

A 34 **B** 128 **C** 37 **D** 35 **E** 32

31. Which number is written in words as *five hundred and eighty-eight thousand three hundred and ninety*?

A 858,390 **B** 588,930 **C** 583,890 **D** 58,839 **E** 588,390

32. The first four terms of a sequence are 27, 37, 47, 57. The sequence continues in the same way. What is the 10th term?

A 127 **B** 115 **C** 119 **D** 100 **E** 117

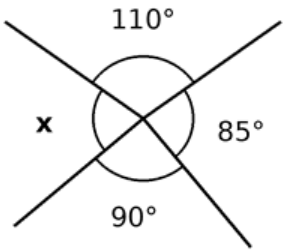
33. If a = 4 and b = 3, what is the value of b − 2?

A 2 **B** 10 **C** 1 **D** 5 **E** 4

34. Ribbon costs £1.50 per metre. How much does 350 cm of ribbon cost?

A £5.25 **B** £6.75 **C** £5.35 **D** £5.55 **E** £52.50

35. The angles meet at a point. What is the size of angle x?



Not drawn accurately

A 85° **B** 285° **C** 75° **D** 90° **E** 217°

36. How many boys chose Cricket?

Favourite choices

	Rounders	Cricket	Netball	Total
Boys	9	?	11	40
Girls	24	22	7	53
Total	33	42	18	93

A 20 **B** 22 **C** 64 **D** 15 **E** 42

37. What must be added to 117 to make 1,000?

A 983 **B** 783 **C** 893 **D** 873 **E** 883

38. Use the graph to convert 24 inches to centimetres.



A 24 centimetres **B** 40 centimetres **C** 80 centimetres **D** 61 centimetres **E** 60 centimetres

39. What is 4,440 ÷ 8?

A 565 **B** 545 **C** 556 **D** 555 **E** 5,550

40. A baking class starts at 11:10 am and lasts 40 minutes. What time does it finish?

A 12:50 pm **B** 11:30 am **C** 11:40 am **D** 11:50 am **E** 12:00 pm

Answer sheet

For multiple-choice questions, mark one answer per question by filling in the brackets.

Q	A	B	C	D	E
1	( )	( )	( )	( )	( )
2	( )	( )	( )	( )	( )
3	( )	( )	( )	( )	( )
4	( )	( )	( )	( )	( )
5	( )	( )	( )	( )	( )
6	( )	( )	( )	( )	( )
7	( )	( )	( )	( )	( )
8	( )	( )	( )	( )	( )
9	( )	( )	( )	( )	( )
10	( )	( )	( )	( )	( )
11	( )	( )	( )	( )	( )
12	( )	( )	( )	( )	( )
13	( )	( )	( )	( )	( )
14	( )	( )	( )	( )	( )
15	( )	( )	( )	( )	( )
16	( )	( )	( )	( )	( )
17	( )	( )	( )	( )	( )
18	( )	( )	( )	( )	( )
19	( )	( )	( )	( )	( )
20	( )	( )	( )	( )	( )
21	( )	( )	( )	( )	( )
22	( )	( )	( )	( )	( )
23	( )	( )	( )	( )	( )
24	( )	( )	( )	( )	( )
25	( )	( )	( )	( )	( )

Q	A	B	C	D	E
26	( )	( )	( )	( )	( )
27	( )	( )	( )	( )	( )
28	( )	( )	( )	( )	( )
29	( )	( )	( )	( )	( )
30	( )	( )	( )	( )	( )
31	( )	( )	( )	( )	( )
32	( )	( )	( )	( )	( )
33	( )	( )	( )	( )	( )
34	( )	( )	( )	( )	( )
35	( )	( )	( )	( )	( )
36	( )	( )	( )	( )	( )
37	( )	( )	( )	( )	( )
38	( )	( )	( )	( )	( )
39	( )	( )	( )	( )	( )
40	( )	( )	( )	( )	( )

End of paper.