Owl Tutors

King's College Junior School Style 7 +

Mathematics

Paper 1

Time allowed: 40 minutes

Instructions:

• Write your answers on the lines provided.
• You may show your working.
• Calculators are not allowed.

Full name _____

Peter – Paper Author & School Entrance Tutor

Peter is a highly experienced preparatory school teacher with over 20 years' expertise in preparing children of all abilities for competitive entrance exams, including the 7+ and 11+ levels. He has helped pupils secure places at leading independent schools such as Brighton College, City of London Freemen's School, Epsom College, Reed's and St George's School. Peter is known for tailoring his teaching to individual learning styles, building both confidence and competence in key areas like literacy, numeracy and reasoning. He combines structured exam technique with supportive, engaging tuition to ensure every pupil reaches their potential.

Find out more about Peter here: https://owltutors.co.uk/tutor/33843/

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In questions 1 to 20 work out the answers and write your answers on the line provided. You may show your working if you wish to do so.

1) 6 + 7 = _____

2) 18 − 9 = _____

3) 4 × 6 = _____

4) 20 ÷ 5 = _____

5) 14 + 9 = _____

6) 36 ÷ 3 = _____

7) 7 × 8 = _____

8) 150 ÷ 10 = _____

9) 34 + 27 = _____

10) _____÷ 4 = 5

11) _____− 7 = 18

12) 29 − _____ = 21

13) 24 ÷ _____ = 6

14) 18 + 7 = 30 − _____

15) 6 + _____ + 11 = 25

16) Sarah has 28 stickers. She gives 9 away.

How many stickers does she have left?

17) A toy costs 35 pence.

How much do 3 toys cost?

_____

18) There are 24 biscuits shared equally between 6 children.

How many biscuits does each child get?

19) Tom is 25 cm taller than Ben. Ben is 115 cm tall.

How tall is Tom?

_____

20) Lucy has 20 pence. Sam has 15 pence more than Lucy.

How much money does Sam have?

_____

If they put their money together, how much do they have?

_____

A drink costs 50 pence. How much money will they have left over?

_____

21) There are 52 children going on a trip.

Each coach can carry 10 children. How many coaches are needed?

_____

22) Emma has £18. Jack has half as much money as Emma.

How much money do they have altogether?

23) Ben leaves home at 8:30 am. It takes him 20 minutes to get to school.

What time does he arrive?

_____

24) Here are three numbers:

4   12   3

Fill in the boxes, using all the numbers in each row.

	x	3	=	

	÷	3	=	

	÷		=	3

3	x		=	

25) Circle two numbers that add up to **50**

8   39

19   31

11   42

21

26) Write the correct symbol in the box (**+ − × ÷**)

a) 6 ☐ 7 = 42

b) 30 ☐ 5 = 6

c) 15 ☐ 4 = 19

d) 24 ☐ 6 = 4

27) Continue the number patterns:
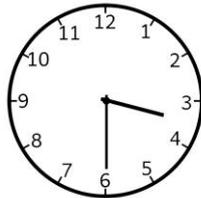
5, 10, 15, 20, _____ , _____

18, 15, 12, 9, _____ , _____

2, 4, 8, 16, _____ , _____

28) Use the fewest amount of coins to make **68p**.
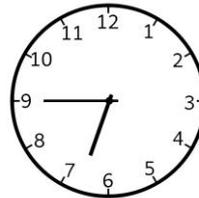Write the coins you will use on the line below.

_____

29) Look at the time shown on the analogue clockfaces. Write the corresponding digital time on the line below. Both times are in the morning.

_____   _____
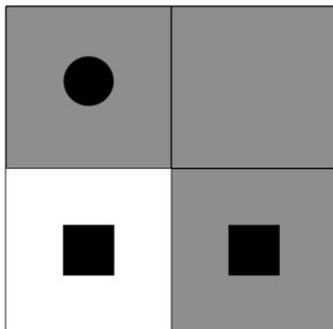
30) Round the following numbers to the closest 10:

37_____

52_____

41_____

29_____

31) Look at the grid below:
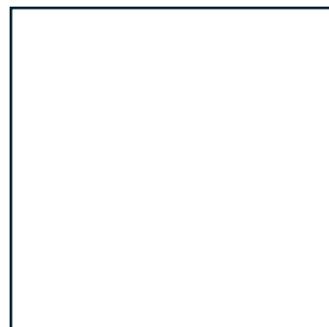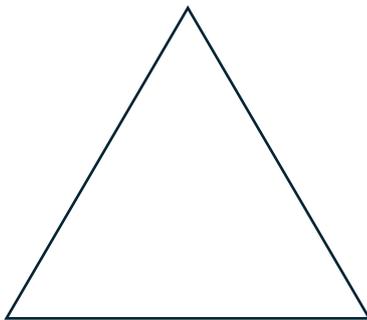

What fraction of the grid is grey? _____

What fraction of the grid has a square? _____

32) Use the numbers 1 to 9 once only to complete the magic square.

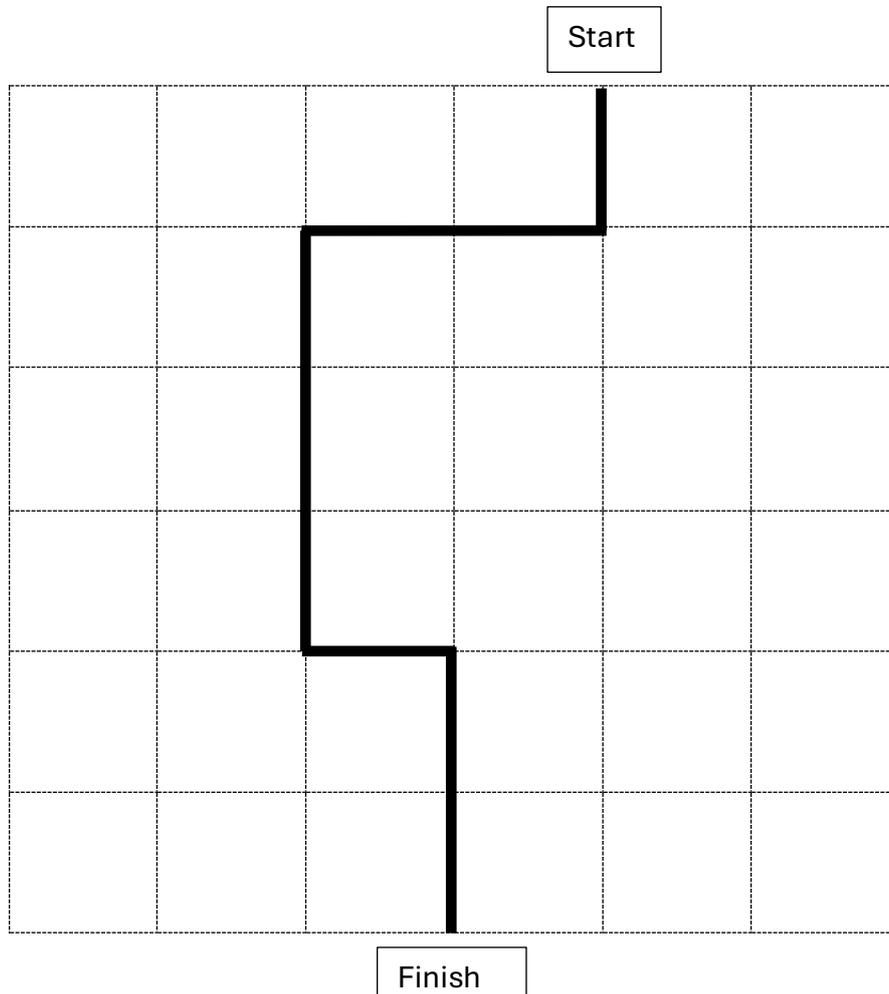All rows, columns and diagonals must add to 15.

8	1	
3		7
	9	

33) Draw a straight line to cut each shape into **two equal halves**

34) Follow the route on the grid from start to finish.

Start

Finish

Write down all the moves from start to finish in the correct order. The first two moves have been done for you.

<u>Down 1 square</u>

<u>Left 2 squares</u>

_____

_____

End of Test

<u>Answers</u>

1. 13
2. 9
3. 24
4. 4
5. 23
6. 12
7. 56
8. 15
9. 61
10. 20
11. 25
12. 8
13. 4
14. 5
15. 8
16. 19
17. 105p (£1.05)
18. 4
19. 140 cm
20. Sam: 35p, Total: 55p, Change: 5p
21. 6 coaches
22. £27
23. 8:50 am
24. 4 x 3 = 12, 12÷3=4,12÷4=3, 3x4=12
25. 19 and 31, or 42 and 8, or 39 and 11
26. ×, ÷, +, ÷
27. 25, 30 / 6, 3 / 32, 64
28. Any correct order of the following combination (50p+10p+5p+2p+1p)

29. 3:30, 6:45

30. 40, 50, 40 ,30

31. Grey = ¾ , Squares = 2/4 or 1/2

32. Correct magic square

8	1	6
3	5	7
4	9	2

33. Correct halving lines (as accurate as possible)

34. DOWN 1 → LEFT 2 DOWN 2 → DOWN 3→ RIGHT 1→

End of Paper