The **Reigate School** Maths Challenge

(Calculators are not to be used during the test)

1. 135 + 412 + 2

4. 34271 - 5186

2. 364 - 31

5. £16.94 + £235.41

3. 514 x 3

6. £12.53 x 8

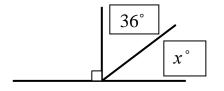
(6 marks)

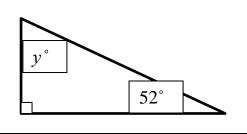
7. What is the total cost of 5 packets at 14p each, 10 tins at 62p each and 3 boxes at £2.27 each?

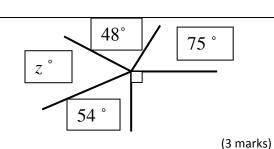
(1 mark)

8. Calculate the missing angles:

(Diagrams are NOT drawn to scale)







9. 253.76 + 471.95

15. -15 + -10

10. 35 - 12 + 14 - 23

16. $(32 \div 8) \times 5$

11. 4614 ÷ 3

17. 9 x (5 - 11)

12. $24 + 12 \div 6$

18. 375 x 86

13. 57.3 - 24.1

19. 3 46.23

14. 25 - 38

(11 marks)

20. Divide £7.25 in the ratio 3 : 2

(1 mark)

21. What is the average of the following numbers: 1, 3, 6, 8, 2, 3, 9, 5, 7, 16 (1 mark)

RSMC No. 1 Core Please turn over

Do not write on this sheet ~~~ Answer all questions

22. Write the following numbers in order of size. Smallest number first: 101.3, 10.5, 1.05, -3, 1.5, 3

(1 mark)

- 23. If a = 2 b = 8 c = 5 d = 10 e = -3
- a) a + b
- d) 9a

g) ade

- b) b d
- e) b e
- h) c²

c) cd

- f) 7c + 2b
- i) 3(7c 2d)

(9 marks)

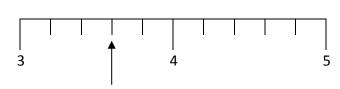
- 24. Solve :-
- a) 26 = 19 + x
- d) 232 = 4x
- g) 14x + 5 = 47

- b) x 16 = 5
- e) 56 = 4x + 4
- h) 2(x 5) = 6

- c) 3x = 24
- f) 10x 7 = 53
- i) $(3x + 4) \div 2 = 5$

(9 marks)

25. What is the reading on this scale:-



(1 mark)

26. Find the total area in cm² of the shape below:



12

(1 mark)

27. If 5 drinks cost £10.15, how much would 3 cost?

(1 mark)

28. Write down the next **three** numbers in this sequence:

2, 3, 5, 8, 12, ___, ___,

(1 mark)

29. How many minutes are there between 22.38 and 05.24

(1 mark)

- 30. Find :-
- a. 10% of £450
- b. 15% of £240
- c. 17 ½ % of £340

(3 marks)