Mathematics

Question Paper

Name: _____ Date: _____ Class: _____

Instructions

- Answer every question.
- Write your answers on the lines or in the spaces provided.
- Show your working. You may be given a mark for a correct method even if your answer is wrong.
- The number of marks for each question is shown in brackets.
- You may not use a calculator.
- The total number of marks is 54.

Section A

20 marks

Answer all the questions in this section.

1.	4,586 + 3,729 =	Answer: _____	(1)
2.	10,000 - 6,348 =	Answer: _____	(1)
3.	36 × 24 =	Answer: _____	(1)
4.	1,248 ÷ 8 =	Answer: _____	(1)
5.	$^{3}/_{4} + {}^{5}/_{8}$ = (give your answer as a mixed number)	Answer: _____	(1)
6.	$2{}^{1}/_{2} - 1{}^{3}/_{4}$ =	Answer: _____	(1)
7.	4.5 × 6 =	Answer: _____	(1)
8.	Find 35% of 240.	Answer: _____	(1)
9.	Find $^{3}/_{5}$ of 85.	Answer: _____	(1)
10.	Round 47,865 to the nearest thousand.	Answer: _____	(1)
11.	Write $^{5}/_{8}$ as a decimal.	Answer: _____	(1)
12.	What is the lowest common multiple of 6 and 8?	Answer: _____	(1)
13.	What is the highest common factor of 36 and 48?	Answer: _____	(1)
14.	Work out $7^{2} + 3^{3}$.	Answer: _____	(1)
15.	The temperature at midnight was -5°C. By noon it had risen by 12°C. What was the temperature at noon?	Answer: _____	(1)
16.	9.6 ÷ 8 =	Answer: _____	(1)
17.	$4n + 7 = 39$. Work out the value of n.	Answer: _____	(1)
18.	Write the ratio 24 : 36 in its simplest form.	Answer: _____	(1)
19.	2.5 litres - 850 ml = _____ ml	Answer: _____	(1)
20.	Find the median of 3, 9, 4, 12, 7.	Answer: _____	(1)

Section B

34 marks

Answer all the questions in this section. Show your working.

21. Three packs of pens cost £2.45 each. Ali pays with a £10 note. How much change should he get?

Working space

Answer: _____ (2)

22. A train leaves at 08:47. The journey takes 2 hours 38 minutes. At what time does the train arrive?

Working space

Answer: _____ (2)

23. Sweets are shared between Mia and Tom in the ratio 5 : 3. There are 96 sweets. How many sweets does Mia get?

Working space

Answer: _____ (2)

24. A rectangle has a perimeter of 64 cm. Its length is 3 times its width. Work out the area of the rectangle.

Working space

Answer: _____ (2)

25. A coat costs £80. In a sale the price is reduced by 15%. A further £5 is then taken off. What is the final price?

Working space

Answer: _____ (2)

26. The mean of five numbers is 12. Four of the numbers are 8, 15, 11 and 14. Work out the fifth number.

Working space

Answer: _____ (2)

27. Two angles of a triangle are 47° and 68°. Work out the third angle.

Working space

Answer: _____ (2)

28. Sam reads $^{2}/_{5}$ of a book on Monday and $^{1}/_{3}$ of the book on Tuesday. What fraction of the book is left to read?

Working space

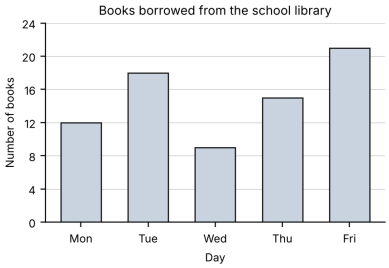
Answer: _____ (2)

29. The bar chart shows the number of books borrowed from a library each day.

(a) On which day were the most books borrowed? (1)

(b) How many more books were borrowed on Friday than on Wednesday? (1)

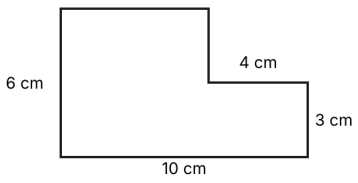
(c) Work out the mean number of books borrowed per day. (1)



Working space

Answer: _____ (3)

30. The diagram shows an L-shaped piece of card. Work out its area.



Working space

Answer: _____ (3)

31. Here are the first four terms of a sequence: 5, 11, 17, 23. Work out the 10th term.

Working space

Answer: _____ (2)

32. A car travels 150 km in 2.5 hours at a steady speed. How far does it travel in 4 hours at the same speed?

Working space

Answer: _____ (2)

33. A bag holds 3 red counters, 5 blue counters and 2 green counters. One counter is taken at random. What is the probability that it is not blue?

Working space

Answer: _____ (2)

34. 3 notebooks and 2 rulers cost £7.30. A ruler costs 80p. How much does one notebook cost?

Working space

Answer: _____ (2)

35. A tank is a cuboid 20 cm long, 15 cm wide and 10 cm high. It is filled with water to $^{3}/_{4}$ of its height. What is the volume of the water?

Working space

Answer: _____ (2)

36. I think of a number. I multiply it by 6 and then subtract 14. The answer is 52. What number did I think of?

Working space

Answer: _____ (2)

END OF PAPER