

FIRST NAME SURNAME

SCHOOL DATE



SMOOTHMATHS

11 PLUS EXAMINATION

MATHEMATICS

SAMPLE PAPER 1

Paper ID: SM-11MATH-A11

Please read the following before you begin

- Please attempt all questions.
- Keep all your work neatly within the answer spaces provided.
- Show all your working out clearly on the paper.
- Calculators are not allowed.

TOTAL MARKS: 75

TIME ALLOWED: 1 Hour

STUDENT SCORE:/75



Sample paper produced independently by SmoothMaths, inspired by the question style and structure often seen in leading independent school and 11+ entrance exams.
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1. Work out $782 + 456$

Answer:

2. Work out $1324 - 789$

Answer:

3. Work out 645×8

Answer:

4. Work out $15248 \div 7$

Answer:

5. If £1 is worth \$1.85, how many pounds are equal to \$925?

Answer:

6. A box of pencils costs £4, and a notebook costs £3. In a sale, pencils are half price, and notebooks are reduced by 25%. Sally buys 5 boxes of pencils and 3 notebooks. How much does she pay?

Answer:

7. Harry eats a chocolate bar. Anna eats the remaining chocolate. What fraction of the bar is left?

Answer:

8. Lisa thinks of a number. She triples it, subtracts 7, and gets 50. What is Lisa's number?

Answer:

9. Write in words the number 305602.

10. What number is halfway between -7 and 12?

Answer:

11. A movie starts at 2:45 pm and ends at 5:20 pm. How long is the movie?

Answer:

12. There are 12 plants in a garden, with 1.2 meters between each plant. How long is the row, including the first and last plants?

Answer:

13. 0.285 is halfway between two numbers. One is 0.27. What is the other number?

Answer:

14. A dice is rolled twice. How many ways can you get a total of 9?

Answer:

15. Renting a hall costs £20 per hour, plus a fixed £50 booking fee. Sarah paid £150. How many hours did she rent the hall for?

Answer:

16. Jerry buys a bag of sweets for £1.25 and sells them for £2 each. If he sells 20 bags, what is his total profit?

Answer:

17. A rectangle measures 5 cm by 8 cm. What is the area of the rectangle?

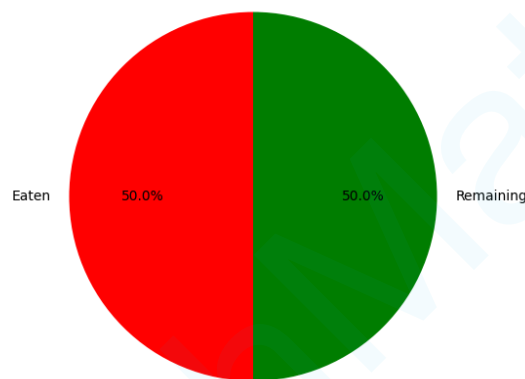


Answer:

18. Kasey cycles 6 km in 15 minutes. What is his speed in kilometers per hour?

Answer:

19. A pizza is cut into 10 slices. Sam eats 3 slices, and Jade eats 2 slices. What fraction of the pizza is left?



Answer:

20. A cube has a volume of 64 cm^3 . What is the length of one side of the cube?

Answer:

21. A bag contains 5 red marbles, 4 blue marbles, and 3 green marbles. What is the probability of picking a blue marble?

Answer:

22. Reflect the given triangle in the vertical mirror line.



(Include a diagram).

23. What is the smallest number that 6, 8, and 12 all divide into?

24. A train travels at 90 km/h. How far does it travel in 3 hours and 40 minutes?

Answer:

25. A swimming pool is filled at a rate of 10 liters per minute. How many liters will be in the pool after 2 hours?

Answer:

26. A cake is divided into 16 equal slices. If 6 slices are eaten, what percentage of the cake remains?

Answer:

27. A shop sells apples at £3 per kilogram. If Maria buys 2.5 kilograms, how much does she pay?

Answer:

28. A rectangle has a perimeter of 36 cm. Its length is twice its width. What are its dimensions?



Answer:

29. A square's area is 81 cm^2 . What is the length of one side?



Answer:

30. A class of 25 students has 12 girls. What fraction of the class are boys?

Answer: