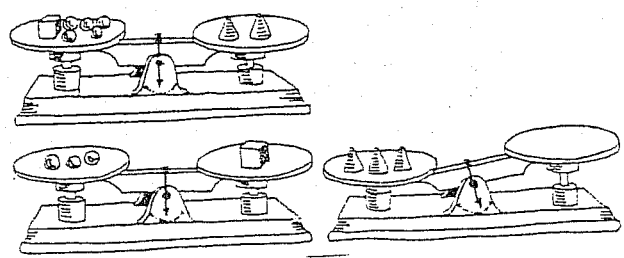


1. Halley's Comet appeared in the years 1834, 1910, and 1986. In what year will it next appear?

Answer

2. How many spheres must be placed in the empty pan to balance the scale?



Answer

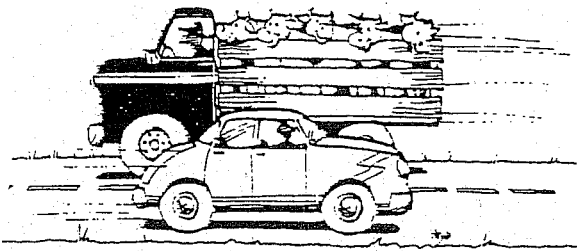
3. What fraction names the point that is halfway between  $\frac{3}{4}$  and  $\frac{11}{12}$  ?

Answer

4. Find five consecutive whole numbers that add to 70.

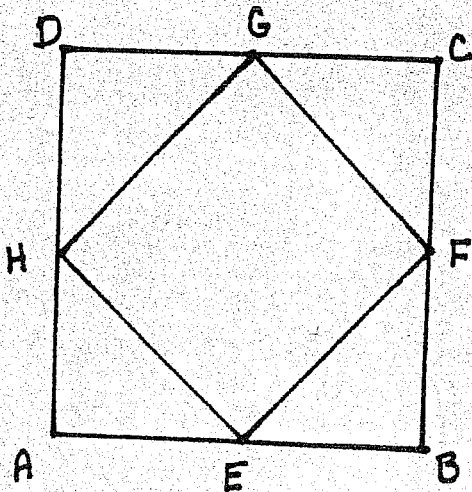
Answer

5. The truck and car are each traveling 60 km per hour. About how far apart will they be in 5 minutes?



Answer

6. The area of the square ABCD is  $100 \text{ cm}^2$ . E and F are midpoints of the sides on which they lie. What is the area of square EFGH?



Answer

7. One penny is 0.14 cm thick. How many meters high is a stack of 1,000,000 pennies?

Answer

8. A plane left Jacksonville, FL at 7:45 A.M. Eastern Standard Time. The plane landed in Seattle, WA 8 hours and 32 minutes after take-off. What time was it in Seattle when the plane landed?

Answer

9. A gardener used 80 meters of fencing to enclose his garden. The length of the garden is 25 m. How wide is the garden?

Answer

10. Look for the pattern.

A, B, C, D, E, F, A, B, C, D, E, F, A, B, C, ...

What will be the 200<sup>th</sup> letter in this pattern?

Answer

11. What is the date when the month of July is 15,000 minutes old?

Answer

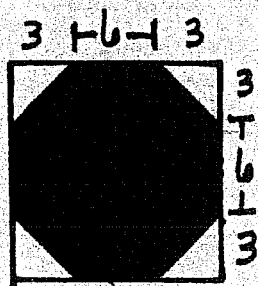
12. Five students took a math test. The average score was 82. Four students' scores were 76, 85, 90, and 64. What was the fifth student's test score?

Answer

13. A mother is 24 years old and her daughter is 6 years old. In how many years will the mother be twice the age of the daughter?

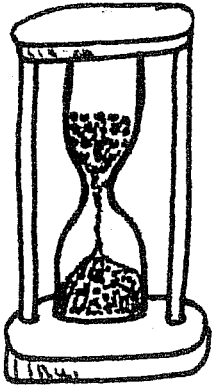
Answer

14. What is the area of the shaded region?



Answer

15.  $\frac{3}{5}$  of the sand went through in 18 minutes. If the rest of the sand goes through at the same rate, how long does it take all the sand to go through the sand timer?



Answer

16. What's the starting number?

?

Multiply by 0.5

Multiply by  $\frac{1}{3}$

Square the number

Add 1

50

Answer

### CIPHERING ANSWERS

- 1. 2062
- 2. 12
- 3. 5/6
- 4. 12,13,14,15,16
- 5. 10
- 6. 50
- 7. 1400
- 8. 1:17
- 9. 15
- 10. B
- 11. July 11
- 12. 95
- 13. 12
- 14. 126
- 15. 30 minutes
- 16. 42

Tiebreaker 1 - 3

Tiebreaker 2 - 60%

### Individual Test Answers

- |       |       |       |       |
|-------|-------|-------|-------|
| 1. D  | 15. D | 29. C | 43. C |
| 2. C  | 16. A | 30. A | 44. C |
| 3. A  | 17. C | 31. D | 45. B |
| 4. C  | 18. C | 32. D |       |
| 5. A  | 19. A | 33. D |       |
| 6. D  | 20. C | 34. A |       |
| 7. C  | 21. A | 35. D |       |
| 8. B  | 22. D | 36. B |       |
| 9. C  | 23. B | 37. A |       |
| 10. C | 24. B | 38. C |       |
| 11. B | 25. D | 39. B |       |
| 12. A | 26. D | 40. A |       |
| 13. B | 27. B | 41. B |       |
| 14. C | 28. B | 42. B |       |