

1. "Two hundred and forty-seven thousand" is

- a) 204700 b) 204070 c) 247000 d) 240700

2. $0 + 1 + 3 + 5 = ?$

- a) 8 b) 9 c) 10 d) 11 e) 12

3. Find the next number in the following number sequence.

2, 7, 13, 20, 28, ...

- a) 33 b) 35 c) 37 d) 39 e) 43

4. What arithmetic symbol can we place between 2 and 3 to make a number greater than 2 but less than 3?

- a) + b) - c) \times d) \div e) a decimal point

5. If p and q are numbers and $p \odot q = \frac{p+q}{2}$, find $1 \odot 3 = ?$

- a) 2 b) 3 c) 5 d) 6 e) None of these

6. A *palindromic* number is any number which has the same value when read from either direction. Therefore 2002 is a palindromic year. How long will it take to have the next palindromic year?

- a) 10 b) 100 c) 110 d) 1001 e) None of these

7. How many buses would be required to transport 329 students, if each bus holds a maximum of 47 students?

- a) 5 b) 6 c) 7 d) 8 e) 9



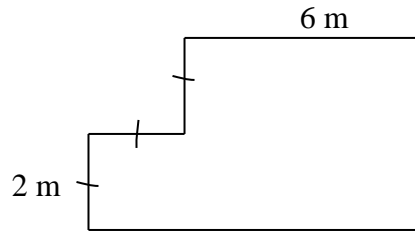
8. Find the angle between the hands of a clock at 5 o'clock.

- a) 90° b) 120° c) 130° d) 150° e) 170°

9. A man works for 10 days. On the first day he is paid R2. On the second day, R4. On the third day, R8. On each successive day, his pay is doubled. How much is he paid altogether for the 10 days?

- a) 1023 b) 1999 c) 2000 d) 2046 e) 2048

10. Find the perimeter of the following figure.
(The distance around the figure)



- a) 8m b) 18m c) 20m d) 22m e) 24m

11. How thick is a single sheet of ordinary paper, approximately?

- a) 10mm b) 5mm c) 1mm d) 0.5mm e) 0.1mm



12. What is the time 34 hours after 2 o'clock?

- a) 10:00 b) 11:00 c) 12:00 d) 13:00 e) 14:00



13. How many times larger is the first 8 than the second in 86482?

- a) 10 b) 80 c) 100 d) 1000 e) 7920

14. John ate 2 more nectarines each day than on the previous day, over a five-day period. If he ate 45 altogether, how many did he eat on the first day?

- a) 3 b) 5 c) 7 d) 8 e) 9

15. What fraction of the day is 180 minutes?

- a) $\frac{3}{4}$ b) $\frac{1}{8}$ c) $\frac{1}{4}$ d) $\frac{1}{2}$ e) None of these



16. Find the smallest natural number (greater than 1) which when divided by 2, 3, 4 and 5 respectively leaves a remainder of 1 on every occasion.

- a) 41 b) 51 c) 61 d) 71 e) 81

17. Donald Duck can eat 2 pizzas in 3 minutes, while Goofy can eat 3 pizzas in 2 minutes. At these rates, how many pizzas can they eat together in an hour?

- a) 54 b) 96 c) 130 d) 216 e) 250



18. If $a + b = 26$ and $a - b = 12$, then find the value of $a \times b$.

- a) 123 b) 130 c) 133 d) 135 e) 143

19. An old fashioned toaster can toast one side of up to 4 slices of bread in one minute. What is the least time required to toast both sides of 9 slices?

- a) 4 b) 5 c) 6 d) 7 e) None of these

20. Dumb-bells weigh 2, 3 or 4 kg. The total weight of a pile of dumbbells is 80 kg. The number of dumb-bells in the pile that weigh 3 kg can **not** be

- a) 2 b) 3 c) 4 d) 6 e) 10

21. In any calendar year, what would be the maximum number of Saturdays that fall on the 9th day of the month?

- a) 1 b) 2 c) 3 d) 4 e) 5

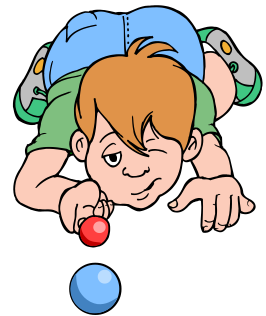


22. How many positive 5-digit integers have the result of 2000 when their digits are multiplied?

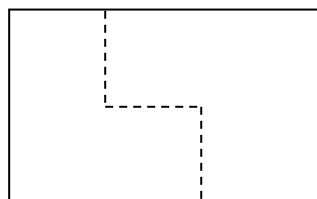
- a) 15 b) 20 c) 25 d) 30 e) 100

23. There are 37 red, green, blue, and yellow marbles in a bag. There are 3 more red marbles than green marbles, 2 more red than blue, and 4 more yellow than blue. How many green marbles are there?

- a) 5 b) 7 c) 9 d) 11 e) 12



24. You are given a piece of wood measuring 8 cm by 18 cm. The wood is cut into two pieces roughly as shown below, and the pieces are then rearranged to make a square.

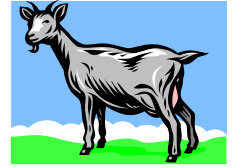


Which one of the following gives the area of the square?

- a) 10×10 b) 11×11 c) 12×12 d) 13×13 e) 14×14

25. Each of my three uncles owns some goats. They have different numbers of goats, each 3 or more, and multiplying the three numbers together gives the product 108. What is the total number of goats?

- a) 15 b) 16 c) 17 d) 18 e) 19



26. Joe had a number of jellybeans. Half of them were red, one third of them were blue and the rest were green. Amanda took one third of the red ones and half of the green ones, and then Cassandra took half of the remaining red ones and a quarter of the blue ones. Exactly 54 jellybeans remained in total. How many were there originally?

- a) 75 b) 86 c) 97 d) 108 e) 209

27. Five girls A, B, C, D, E sit on 2 chairs and 3 stools, each seating exactly one girl. Who sits on the chairs if A and B sit on the same type of seat, B and D sit on a different type, D and E sit on a different type?

- a) CD b) AD c) BE d) BC e) AB

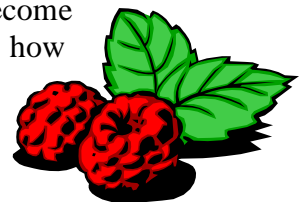
28. 294 digits are used to number the pages of a book. How many pages does the book have?

- a) 127 b) 134 c) 140 d) 146 e) 151



29. Berries are 90% water and 10% pulp, measured by weight, when freshly picked. If the berries sit for a week, part of the water evaporates and the berries become 80% water and 20% pulp. If 20 kg of freshly picked berries sit for a week, how much will they weigh?

- a) 8 kg b) 10 kg c) 12 kg d) 15 kg e) 18 kg



30. If you fold the nets given alongside properly you will have a cube. How many different nets are there that fold into cubes?

- a) 5 b) 7 c) 10 d) 11 e) 12

