

Numerical reasoning

1. There is an unknown number of marbles inside a jar. If I place them in rows of 2,3,4,5 or 6 there is always one left. What is the minimum number of marbles inside the jar?
A: 21 B: 31 C: 41 D: 51 E: None of these
2. A dress is selling for a discount of 25%. A further bargaining reduces the price by another \$20 to a final price of \$160. What was the original price before discount and price reduction?
A: 180 B: 195 C: 210 D: 240 E: None of these
3. Anne, Bob and Cathy are generous people. They decide to share their wealth. Anne gives Bob half of her money. Then Bob gives Cathy half of his new balance. Cathy decides to give back half of her new total to Anne, who now has a balance equal to her original amount. If before the "wealth sharing", Bob has \$40 and Cathy has \$10, how much money does Anne has?
A: 15 B: 25 C: 40 D: 45 E: None of these
4. A duck costs twice as much as a chicken. A pig costs 100 ducks. A cow costs 2 pigs and 3 ducks. If a chicken costs \$15, how much is a cow?
A: \$4213 B: \$4243 C: \$4263 D: \$4283 E: None of these
5. A carpenter quotes an initial cost of \$200 plus \$35/hour and a material cost of \$175 for a job. He will give a discount of 10% of the total cost if the total exceeds \$500. How much is the cost if the job requires 11 hours?
A: \$640 B: \$680 C: \$686 D: \$688 E: None of these
6. Cake A needs 250g of sugar while cake B needs 100g. If I need to bake at least 2 cake A for every cake B and I have 5 kg of sugar, what is the maximum number of cake B that I could bake?
A: 6 B: 7 C: 8 D: 9 E: None of these
7. Coffee machine A costs \$850 and \$0.2/capsule. Coffee machine B costs \$1000 and \$0.15/capsule. Coffee machine C costs \$780 and \$0.25/capsule. Coffee machine D costs \$500 and \$0.35/capsule. I estimate that the life of each machine is about 2000 capsules but I don't want to spend anything more than \$1200 on coffee. Which machine should I buy?
A: A B: B C: C D: D E: None of these
8. Each year the costs of using a car are 10% of the price of the car at the start of the year, plus \$850 insurance and a petrol cost of \$2 for every 10km. If at the start of the year the car is worth \$32,000 and during the year the car travelled 10,000 km, what is the cost of using the car for that year?
A: \$5620 B: \$5850 C: \$6050 D: \$6430 E: None of these

The following story relates to the next two questions:

Anne, Bob and Cathy operate three computer shops and each have a collection of computers. Mr GB also operates a computer shop and has half as many computers A,B and C as Bob plus 1 computer A.

Anne's computer	Bob's computer	Cathy's computer
3 x computer A	2 x computer A	5 x computer A
4 x computer B	6 x computer B	2 x computer B
5 x computer C	4 x computer C	3 x computer C

Computer A sells for three quarter of computer B, while computer C sells for half. The costs of all computers A, B, and C are the same.

9. Who has the smallest stock of computers in terms of cost?
A: Anne B: Bob C: Cathy D: GB E: None of these
10. Who would have the largest worth of computers if all their computers were sold?
A: Anne B: Bob C: Cathy D: GB E: None of these
11. Which is the smallest number that is a square number and a multiple of 6, 9 and 10?
A: 100 B: 360 C: 640 D: 900 E: None of these
12. A certain drink mixture requires a combination of ingredients A,B and C in the ratio of 2:7:5
If I require 100 litres of this drink mixture, how many litres of ingredient B do I need?
A: 20 B: 35 C: 40 D: 50 E: None of these

END

ANS

1. E
11. D

2. D
12. D

3. C

4. E

5. E

6. C

7. D

8. C

9. D

10. B