1.find the number of factors that the number 2025 has.

a)12 b) 13 c)14 d)15

ans) d

express the number 2025 in terms of prime factors

2025=3\*3\*3\*3\*5\*5=34 \*52=(4+1)(2+1)=3.

2.five years ago, a amn was five times as ols as his son. Two years hence,the man will be three times as old as his on.what is the present age of the man?

a)50 b)40 c)35 d)45

ans) b

let the present age of the father be x years and that of son is y years . from the given conditions, we have ,x-5=5(y-5)

=x-5y=-20 (1)

X+2=3(y+2)=x-3y=4 (2)

(1)-(2)

Y=12 years

From (1),x-5(12)=-20

X=40

3.a test has 175 questions. A candidate gets 4 marks for each correct answer ans loses 2 marks for each wrong answer and 1 for those questions which are left unattended.a student scored 405.on analyzing his performance he concluded that he left unattempted 35 questions.how many questions did he mark wrong?

a)30 b)10 c)20 d)5

ans)c

let no of questions correct be x

let no of questions got wrong be y

x+y+35=175==x+y=140 (1)

4x-2y-35=405

4x-2y=440=>2x-y=220 (2)

(1)+(2)

Y=20

4.the price of an article is first increased by 10% and then decreased by 10%.what is the change in the price?

a) increases by 1%

b)decreases by 1%

c)no change in price

d)none of the above

ans)b

let 100 be the price of the product,if it is increased by 10% the price will be 110.

If this price is decreased by 10% then the final price will be 99 hence its decrease by 1%.

5.the cost price of two products are equall,one product is sold for 16% profit and the other is sold for 8% loss. What is the over all percentage of profit?

a)10% b) 4% c) 8% d)12%

ans) b

let the price of the product be 100rs

then the first product Is sold for 116rs

and the sec product is sold for 92rs.

Total sp=116+98=208

Overall profit is 208-200=8 and the profit percentage is 4%

6.what is the annual income of a person who invested rs 19500 in 7% stock at 2.5% discount?

a) 1200 b) 1000 c) 1350 d) 1400

ans)d

the face value is 100rs and 2.5% discount is given on it hence it becomes 97.5rs

therefore no of units purchased is 19500/97.5=200

and 200\*7=1400.

7.is the five-digit number abc46 is a perfect square ?

a) yes b) no c) none

ans) no

8.what is the least natural number that has to be added to 425 to make it a perfect cube?

a) 88 b) 87 c)86 d)90

ans)b

the least perfect cube greater then 425 is 512 hence 87 has to be added

9.the interest for third year on a certain amount of sum under a certain rate of simple interest is 2000rs.whta is the sum of the interests accured on it in the 5th,6th amd 7th year?

a)rs6000 b)rs6300 c) rs6450 d)rs6600

ans) 6000

10. a sum of money invested at simple interest amounts to rs 10240 at the end of 3 years.if the interest at the end of 5 years is the same as the sum invested,then the interest at the end of first four year is

a) 4820 b) 5020 c)5120 d)5340

ans)c