J.4 Rus-0178-2012: Consider a rundom voriable 8 - that takes values +2 and -2 With probability 0.5 each. The value of The aimidative distribution function F(x) at x=-1 and +1 are: (A) 0 and 0.5 Cen 0.5 and 1 CB.) 0 and 7 CD.) 0.25 and 0.75 - Plane 10. Sent of order lateria FLH=17D=1911XZ-1320+0.5 F(+=1)=P(x21)=P(x2-7) APLX2-1) +PL0270 +PLACT) = 0.570+0.5+0 1ATE-2001: An examination jagar has 150 multiple achorce questions of 1-nark coch, with each question having 4
choices. Each incorrect answer fetches
-10,29 mark. Suppose 1000 students
choose all their answers randomly with
uniform probability. The sum total of
the expected marks abtained by all these students 13; (A) O (B) 2530 (C) 7925 (D) 9378

Date 9 10 125 1-question 7 Menci; experted mass= 1 x 150x 100; Set B=211,12,13,14,199 and

Ore randomly selected, one from each

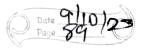
set. What is the probability that the

sum of the 2 numbers equal 16? (A) 0.20 (B) 0.25 (C) 0.30 (D) 0.33 Total possible choice = 408=20 Possible combinations: 12,142



Independently mod particular dies each with 6 tags, numbered 1 tos

6. The person with the lawer lower number wins. In case of a tree they roll the dice segrentedly until these is no tree. Detine a treal as a thoom of the die dice by P and 9. Assume mat all 6 numbers on each die are egyl-porpable and that all treals are
to endependent. The probability bounded
to 3 decimal glover that one of them
were on the Onerd total 90 3) To have a win on third total, first 2 totale must be a fee. : PITIC, T90, WINO) - Lx 1 x 5 - S



Cypti-2021: For a given blused win the probability that the outcome of a tossis a head is V-4. This Corn is tossed 2000 times. Let & denote the random Nasjable whose value is the number of times to that head appeared on these 1000 tosses. The standard deviation of a Crounded to 2 decimal places => m= 1000 9-20-4 9-7-0-5 Varance mpy = 100000.400.6 Standard deviation- 540-15.49

Pustion-14: The mean and standard direction

Total sample were found to be

9.5 and 2.3 respectively Later, an

additional observation 15 was added to the organal data. Find the 30 of the 11 observation. => consider Phere are 20 such obsertions. 5-9.9 501-9.5-> 2x9=95

10 23 Page 10 23 6-62.5: V[x] = 6.25 15[x²]+ (5(x3)]=16.25 1011=16.25+9.5=906.96.5 · Corrected mean = 195+15 = 10 77 = 1190-1100 = 90 5= 190111= 2.85 Question; A man is known to spak touth?

The british the moons acted and

orpost that It? G. Find the probability

once it is actually 6.

Thoowing a die.

St; Sir occurs 32: event six does not occur. 9(34)=1 and P(325-5

