

1. The independent events A , B are such that

$$P(A) = 0.2, P(A \cup B) = 0.4.$$

(a) Determine the value of $P(B)$. [4]

(b) Calculate the probability that exactly one of the events A , B occurs. [3]

2. The random variable X has the binomial distribution $B(16, 0.2)$. The random variable Y is defined by

$$Y = 2X + 5.$$

(a) Find the mean and variance of Y . [6]

(b) Evaluate $P(Y = 11)$. [3]

3. Bill buys a bag of sweets, of which 6 are red, 4 are green and 1 is blue. He selects 3 sweets at random, without replacement, from the bag. Calculate the probability that his selection contains

(a) 2 red sweets and another sweet of a different colour. [3]

(b) 2 sweets of the same colour and another sweet of a different colour. [5]

4. Customers arrive at a shop such that the number arriving during an interval of length t minutes has a Poisson distribution with mean $0.1t$.

(a) Find the probability that, between 10 a.m. and 11 a.m.,
 (i) exactly 4 customers arrive,
 (ii) the number of arrivals lies between 2 and 8 (both inclusive). [6]

(b) Let X denote the number of customers arriving between 3 p.m. and 5 p.m. Write down the value of $E(X)$ and hence find the value of $E(X^2)$. [3]

5. (a) When a certain type of seed is planted, there is a probability of 0.7 that it produces red flowers. A gardener plants 20 of these seeds. Calculate the probability that

(i) exactly 15 seeds produce red flowers,
 (ii) more than 12 seeds produce red flowers. [6]

(b) When a different type of seed is planted, there is a probability of 0.09 that it produces white flowers. The gardener plants 150 of these seeds. Use an appropriate Poisson distribution to determine, approximately, the probability that exactly 10 seeds produce white flowers. [3]

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James A. Caporaso, Martin Rhodes



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bottom of box make your own gas mask box how to get started take a large sheet of stiff brown card and draw out the net shown above to the right size mark the middle of the bottom edge of the card and place the centre of line a there continue to

draw the rest of the net and carefully cut it out score along the remaining lines as they are folds

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instructions sustainability shipping returns policies contact more 0 card gas masks these gas masks are designed to replicate the type of gas mask civilians used during world war 2 they are predominantly designed to be used by children for dressing up and there is a cardboard gas mask that can be donned for added authenticity

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teach children about evacuees and the second world war with these evacuee labels children can come to school dressed as wartime children wearing the evacuee label around their necks as part of a re enactment of the evacuation of the second world war

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browse a wide selection of ww2 kids gas mask and face coverings available in various fabrics and configurations made by a community of small business owners

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each gas mask was stored in a cardboard box and people were expected to carry their mask with them at all times people could be fined if they were caught in public without their gas masks if you have found this 3d model useful to take a closer look at a second world war gas mask you can explore more 3d models available to support learning

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4 make your own gas mask box 5 make your own national registration identity card 6 make your own ration book 7 make your own evacuee label 8 clothes rationing men and boys 9 government evacuation scheme notice to parents of school children 10 practice your own morale boosting ww2 song 11 a chronology of war

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teach children about evacuees and the second world war with these brilliant printable evacuee gas mask box labels helping them understand wartime events that occurred in an imaginative way it will give them an insight into real life events and keep them engaged in

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a gas mask is a kind of mask that fits over the face area and nose it protects from poison gases and many other hazards in the

air during world war ii gas masks were sent all over england they were worn everywhere even to sleep in case of surprise attack however the germans didn't attack with gas bombs

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jan 6 2023 gas masks were issued to children and grown ups in case the nazis unleashed a gas attack on britain your kids might be more familiar with the facts around the world war thanks to the ve day celebrations but here we will focus on what they need to know about gas masks what were gas masks used for every adult and child in britain was given

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history at home with ely museum make during the second world war a gas masks gas mask were issued to everyone including children and babies as a precaution against attack by gas bombs the masks came in cardboard boxes

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gas masks were issued to all children as a precaution against attack by gas bombs the masks came in cardboard boxes with a strap for carrying them on the shoulder children were

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use these evacuee gas mask box labels to teach evacuation ww2 facts ks2 this will help your class learn what children experienced in wartime england teach children about evacuees and the second world war with these brilliant printable evacuee gas mask box labels helping them understand wartime events that occurred in an imaginative way

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there were special gas masks for children and babies against poisonous gas in ww2 this page describes the children's gas mask which was made to look like mickey mouse with a fluttering nose as the child breathed and the babies gas mask which was enclosed and had to be pumped by hand

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they just need to cut fold and stick the template together to assemble the box then stick the printable gas mask box labels on the side and they're all set the resource comes with an immersive ww2 style label to stick on the box once it's been assembled

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each problem is unique and need to be mapped into algorithmic framework before it can be solved in this section an example problem is mapped into gsa see more

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as mentioned in the previous section gsa is a population based stochastic algorithm and is inspired from the laws of gravitation it starts by assigning initial random positions to search agents each agent is characterized by its position and mass active gravitational mass passive gravitational mass or inertial see more

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to understand how the mapped problem is solved by gsa the results of various steps of the algorithm are given below for one iteration optimization problem see more

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