MATHS REVISION STRATEGIC PLAN 2024

ITEM ONE:

A couple wants to celebrate their anniversary. The wife promises to buy things worth 1.5million. and the husband promises to buy things that will cost an amount that is two quarters more than that of the wife. One of the older children promises to buy all the drinks on the budget which where, 3crates of soda each containing 24 bottles and 6 cartons of water each containing 6 bottles. To reach the venue, the couple planned to move 20km east from their home and then 30km north. However, the son plans to take the direct route from the parent's home to the venue.

TASK:

a) How much will the husband contribute?
b) If the total amount on the budget was two million three hundred forty-six thousand, how much did the son contribute for soda and water?
c) How many guests would you advise the couple to invite and why?
d) Illustrate how the couple and the son plan to move if the coordinate of the couple's home is (0,0) on the grid and hence state the coordinates of the venue on the grid.
e) What distance will the son travel?

ITEM TWO:

You have a piece of wood that is 12cm in length and 12cm in width. You to use it to make a simple money bank that is in shape of a cube and you use it to save your coins. You want to make it in such a way that to remove your money, you don't break it but rather you unfold it and then fold it back. You plan to start making it on 27th November 2023 and you want it to be done in one week!
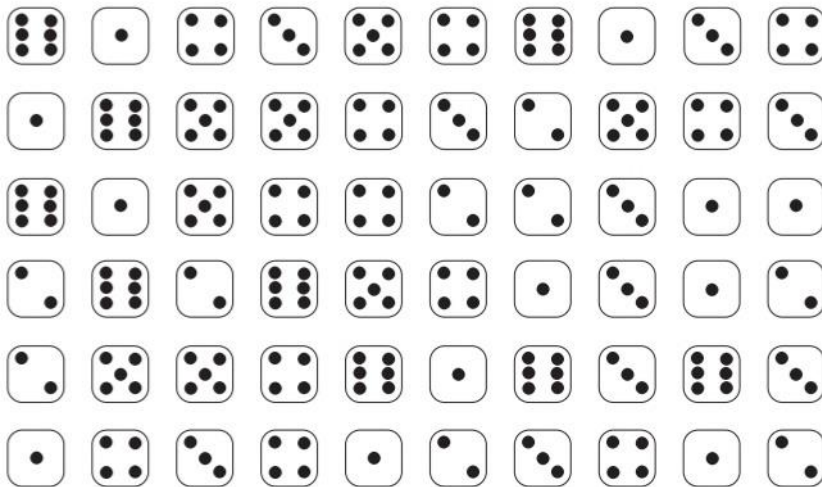
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TASK

a) Accurately illustrate how many pieces of wood you would cut out of the piece of wood you have for your money bank clearly showing their width and length.
b) Show how you will arrange them on the floor such that when you start folding them, they form the shape you want.
c) What space will your money bank occupy?
d) On which date will your money bank be ready for use?

ITEM THREE:

You are to participate in a Ludo game at school. Each of you was told to carry a dice that will help him or her to win. When you reached home, you decided to test your dice by rolling it 60 times while recording the value that appears. Below were the results of each roll you made:

TASK:

a) Summarize your scores.
b) Basing on your summary, which one is your lucky number on the dice?
c) Odd numbers and even numbers, which of the two has the highest probability on your dice?

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d) You want to show your results to one of your friends at home so that he can help you to decide whether to take your dice or not. However, your friend understands diagrams more than numbers. Come up with a diagram that you will show to your friend.
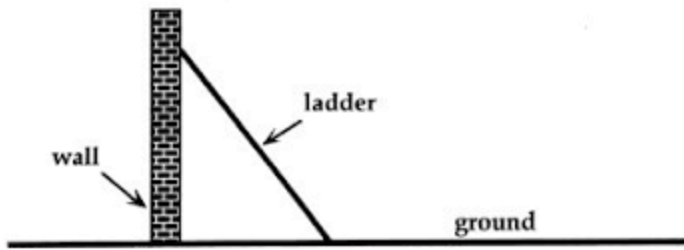
ITEM FOUR:

You are a store's manager in your school bakery project. You missed two days of school due to an emergence. On returning, you found out that the total wheat used in the two the two days was 24 packets. You want to find out the exact amount of wheat used on those two respective days but the student who was getting the wheat from the store didn't attend school! So you went to those in the production department and they told you that all they know is that the packets of wheat used they on day two multiplied that of day one by the same number.

TASK:

a) Use the information you have gathered at the moment, to find out the amount of wheat used on day one and day two respectively.
b) The number of new students who enroll in the school each term is about 40. If currently you're in term three and the number of students are 500. How many students will the school have by term three of the following year?

ITEM FIVE:

An internet router installer wants to install the router outside the building at a height of 15m from the ground floor since that's where the signals are. At first he puts the foot of un-adjustable ladder at 10m away from the wall on the ground and the head of the ladder on the wall at a height of 6m. However, he realized that he could not reach the position he wanted. He had to re-adjust the same ladder to make sure he reaches the position he wants!

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a) Illustrate the initial position of the ladder on a well labelled grid.
b) How steep is the ladder in that initial position?
c) Illustrate on the same grid how he can re-adjust the ladder to reach the position he wants.
d) How steep is the ladder in that new position?
e) Using the new positions, show the relation between the position of the ladder on the ground, on the wall and the slope? (show the mathematical relation)
f) How tall was the ladder used?

ITEM SIX:

You work in an art and design shop. You print different objects on clothes as requested by your customers. A customer comes and requests you to print triangles, circles and squares on his cloth following a particular pattern that will make the clothe beautiful. However, he first gives you a piece of paper that is 12cm in length and 8cm in width to illustrate how you plan to arrange the shapes on the cloth. As you are still talking to the customer, someone calls you requesting you to compute something, so you request the customer to assist you with his phone calculator and on opening it you find a figure 455.

TASK:

a) Show how your illustration will look like.

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b) Which input and operation do you think the customer would have put in the calculator to get the figure you found on the screen?

ITEM SEVEN:

At school you are requested to use a piece of wood to create a rectangular photo frame with a circular space in it where the photo will be put. Your parents have no money to buy you a new piece of wood but you have a piece of wood that is in shape of a parallelogram. Two of its angles are made up of an obtuse angle and two of them are made up of an acute angle. One of the sides is 6cm and the other 4cm.

TASK:

Illustrate accurately how you will cut the piece of wood you have to create what the teacher assigned you to do clearly showing and labelling the:

a) Obtuse and acute angles of the piece of wood you have.
b) The length and width of the rectangular piece of wood you will be able to cut out of the wood.
c) The circular space.

END

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