Training Header Sheet with Change Log Form

Kentucky Math
Operational

Grade 6
Filling container with water
MA0620058

Practice Sets

Date	Comments	Version
2.2022	Initial Operational Training Set	Set A

Brian uses a water hose to fill an empty container with water. The amount of water in the container increases at a constant rate. The relationship between the amount of water in the container and time is shown in the table.

Container

Time (minutes)	0.25	0.5	0.75
Amount of Water (gallons)	0.5	1	1.5

The container can hold a maximum of 12.5 gallons of water.

- After how many minutes will the container begin to overflow?
- Show your work or explain how you determined your answer.

Enter your answer and your work or explanation in the space provided.

After 6.5 minutes the container will begin to overflow I determened my answer by multiplying 05 by 25 to get 12.5 gallons of water then divided by 2 because 0.5 is half of a minute and that's how I got after 6.5 minutes the water conatiner would overflow.

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It will take 6.25 minutes before the contniar over flows. In the table above it shows that the number of minutes is multipled by two to get how many gallons of water there is. So I divided 12.5 by two and I got 6.25 minutes before it over flows.

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i think it will take 7 min before it overflows because if u keep adding up on the min and the gallons of water soon it will overflow when it sson gets close to 7 minutes of filling up.

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6.25 minutes, i multiplied the gallons by the maximum amount of gallons and since i multiplied the gallons i had to multiply the minutes by the maximum gallons too.

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Since for each minute theres two more gallons inside the container in order for it to fill all the way it would take 6 minutes and 25 seconds so it has to take longer than that to overflow.

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It will overflow at 50 minutes beacause $12.5 \times 0.25 = 50$ and 12.5 is how much water the container can hold so that would be when it starts to overflow.

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every thing goes up by point $5\ (.5)$. 12.5,

0.25, 0.5, 0.75, 1, 1.25, 1.50, 1.75, 2, 2.25, 2.50, 2.75,
3,3.25,3.50,3.75,4,4.25,4.50,4.75,5,5.25,5.50,5.75

6, 6.25

0.5, 1,
1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,

10,10.5,11,11.5,12,12.5 the answer is 6.25 minutes

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At 6.5 minutes, the container will overflow. It will have 13 gallons. The minutes go up by .25 and the gallons go up by .5 each time.

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At about 6.25 the container would be around full. I know this because the amount of water is two times the the time or minutes

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It will take 6.25 (or 6 and 15 seconds) minutes to fill the entire bucket. I know this because every 15 seconds it fills up half a gallon, and for every minute it fills up 2 gallons. I counted on my fingers to show how many minutes it would take and got 6 and 12. I then addes 15 seconds because it could still hold one more half gallon of water to be filled.

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the container will start to overflow when it is 6.5 minutes . 1 gallon per 0.5 min . you will find out how many gallons per minute then divdie by 12.5 .
$1 \div 0.5 = 2 \quad 12.5 \div 2 = 6.5$.

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After 6.25 minuets the continer will start to overflow. I got my answer because if you muliply 0.5 times 2 and 1 times 2 you will get that you can fill 2 gallons of water in 1 minuet and in 6 minuets you can fill 12 gallons of water because 6 times 2 is 12. Then i noticed that i still needed to fill up the bucket by 0.5 gallons and i also noticed that it takes 0.25 minuets to fill up 0.5 gallons of water so i then added 0.25 to 6 and i got my answer: After 6.25 minuets the container will start to overflow.

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6.25

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It would begin to overflow at 5.5 minutes when filling. When Brian fills the container it has a pattern each minute the container is filled, it goes 0.5, 1 , 1.5 and I determined that it would keep the pattern going to 1.5, 2 , 2.5 , 2.5 , 3 and so on and until i got to 5.5 that is how i got my answer of 5.5 minutes.

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The container will began to overflow at 6.25 minutes. I know this because 1 go into 12.5, 12.5 time. Then I time 12.5 by 0.5 and got 6.25 minutes.

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it will over flow at 12.6 gallons because the maximum is 12.5 gallons

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The container will begin to over flow at 62.5 minutes. I know this becuse the container gets to 1 gallon of water at 0.5 minutes, and $12.5 \times 0.5 = 62.5$.

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Amount of Water (gallons)	0.5	1	1.5

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- After how many minutes will the container begin to overflow?
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The water will begin to overflow after 6.25 minets.

I determaind my answer by adding 1.5 each 0.75 minute.I kept adding that till i got to 12.5 gallons of water.

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it will be 6 minutes until the container will over flow. i added the amount of water and then i added the time. then i multiplied 3 by four for the water and it got 12. so then i multiplied 1.5 by 4 for the time and then i got 6.

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$12.5 \div 0.5 = 25$ and $25 \times .25 = 6.25$ meaning after 6 minutes 15 seconds the container will start to overflow.