Annotation Form

Anchor Set
Kentucky OP Math Grade 6
MA0620058
Filling container with water
QC Code: server file name

Paper	Doc ID	Score	Notes
a1	**AAAYIP1382 0000446885**	**2**	**Anchor Paper 1** **Score Point 2** This response receives full credit. It includes the two required elements. • The correct answer is given (6.25 minutes). • A complete explanation with the necessary work is given. The flow rate (2 gallons get pumped per minute) and a check to verify the given time completes the necessary work for full credit (2 gallons x 6.25 will get you 12.5). Note that the errant units given (12.5 *minutes*) is overlooked and full credit is given.
a2	**AAAYIP1382 0000470677**	**2**	**Anchor Paper 2** **Score Point 2** This response receives full credit. It includes the two required elements. • It includes the correct answer (6.25 min). • A complete explanation with the necessary work is provided. The division yields the number of .75-minute units required to fill the container (12.5 divided by 1.5 = 8.333333333). The multiplication then yields the total time necessary to completely fill the container to overflowing (Then I did 0.75 times 8.333333333 to get 6.25).

Paper	Doc ID	Score	Notes
a3	**AAAYIP1382 0000396124**	**2**	**Anchor Paper 3** **Score Point 2** This response receives full credit. It includes the two required elements. • It includes the correct answer (6.25). • A complete explanation with the necessary work is included. The increase in both time and gallons is simultaneously undertaken (you add your time which is 0.75 + 0.25 = 1.00 then you gotta add the water 1.5 + 0.5 = 2 gallons then 2 4 6 8 10 12g with 6 mins), which yields the container's 12.5-gallon capacity in 6.25 minutes (then add 0.25 = 6.25 then… it overflows at 12.5 gallons).
a4	**AAAYIP1382 0000390927**	**1**	**Anchor Paper 4** **Score Point 1** This response receives partial credit. It includes one of the two required elements. • The correct answer of 6.25 is given (12.5 x 0.5 = 6.25). Some work (12.5 x 0.5 = 6.25) is correct, but the explanation is incorrect because 0.5 minutes is not equivalent to 50 seconds and .25 minutes is not equivalent to 25 seconds (the 0.5 represents 50 seconds and .25 represents 25 seconds).
a5	**AAAYIP1382 0000470794**	**1**	**Anchor Paper 5** **Score Point 1** This response receives partial credit. It includes one of the two required elements. • The correct answer is given (6.25 minutes). The explanation is incomplete, only indicating that if the table was extended the container would overflow (at 12.5 the container will overflow).

Paper	Doc ID	Score	Notes
a6	**AAAYIP1382 0000694701**	**1**	**Anchor Paper 6** **Score Point 1** This response receives partial credit. It includes one of the two required elements. • The correct answer is given (6.25 minutes). The explanation gives the strategy used, increasing time and gallons simultaneously (going up by o.25 in minutes and 0.5 in the amount of water), but is incomplete. It does not give any information beyond what is provided in the table.
a7	**AAAYIP1382 0000582443**	**0**	**Anchor Paper 7** **Score Point 0** This response receives no credit. It includes none of the two required elements. An incorrect answer is given (25). An incorrect division is provided (12.5 ÷ 0.5 = 25). It uses an incorrect process to find the answer.
a8	**AAAYIP1382 0000066562**	**0**	**Anchor Paper 8** **Score Point 0** This response receives no credit. It includes none of the two required elements. An incorrect answer is given (50). An incorrect division is provided (12.5, the amount of water the container can hold, divided by .25). It uses an incorrect process to find the answer.
a9	**AAAYIP1382 0000222889**	**0**	**Anchor Paper 9** **Score Point 0** This response receives no credit. It includes none of the two required elements. An incorrect answer is given (37.5). An incorrect multiplication is provided (25 x .75). It uses an incorrect process to find the answer.

Practice Set #1
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p1-1	**AAAYIP1382 0000576070**	**0**	**Practice Set 1, Paper 1** **Score Point 0** This response receives no credit. It includes none of the two required elements. An incorrect answer is given (6.5 minutes). An incorrect explanation is provided (multiplying 05 by 25 to get 12.5 gallons of water then divided by 2 because 0.5 is half a minute).
p1-2	**AAAYIP1382 0000653288**	**2**	**Practice Set 1, Paper 2** **Score Point 2** This response receives full credit. It includes the two required elements. • It includes the correct answer (6.25 minutes). • A complete explanation with the necessary work is included. The flow rate is given (the number of minutes is multipled by two to get how many gallons of water) with the division by 2 to determine the answer (I divided 12.5 by two and I got 6.25 minutes).
p1-3	**AAAYIP1382 0000711627**	**0**	**Practice Set 1, Paper 3** **Score Point 0** This response receives no credit. It includes none of the two required elements. An incorrect answer is given (7 min). A vague explanation is provided (u keep adding up on the min and the gallons of water).

Paper	RF Number	Score	Notes
p1-4	**AAAYIP1382 0000158676**	**1**	**Practice Set 1, Paper 4** **Score Point 1** This response receives partial credit. It includes one of the two required elements. • It includes the correct answer (6.25 minutes). An incorrect explanation is provided (since i multiplied the gallons i had to multiply the minutes by the maximum gallons too).
p1-5	**AAAYIP1382 0000469832**	**1**	**Practice Set 1, Paper 5** **Score Point 1** This response receives partial credit. It includes one of the two required elements. • The explanation gives the correct flow rate (each minute theres two more gallons) which shows partial understanding. The answer is incorrect (6 minutes and 25 seconds).
p1-6	**AAAYIP1382 0000201801**	**0**	**Practice Set 1, Paper 6** **Score Point 0** This response receives no credit. It includes none of the two required elements. An incorrect answer is given (50 minutes). An incorrect explanation is provided (12.5 x 0.25 = 50).
p1-7	**AAAYIP1382 0000364874**	**2**	**Practice Set 1, Paper 7** **Score Point 2** This response receives full credit. It includes the two required elements. • It includes the correct answer (6.25 minutes). • A complete explanation with the necessary work is included. The response counts out 25 iterations for both time and gallons and shows that 12.5 coincides with 6.25 at the 25^{th} iteration.

Paper	RF Number	Score	Notes
p1-8	**AAAYIP1382 0000481363**	**1**	**Practice Set 1, Paper 8** **Score Point 1** This response receives partial credit. It includes one of the two required elements. • The explanation gives the correct time to fill ratio (minutes go up by .25 and the gallons go up by .5). Minimal understanding is shown because the pattern in the chart is used to derive 6.5 minutes for 13 gallons. The answer is incorrect (6.5 minutes).
p1-9	**AAAYIP1382 0000585312**	**1**	**Practice Set 1, Paper 9** **Score Point 1** This response receives partial credit. It includes one of the two required elements. • It includes the correct answer (6.25). An incomplete explanation that includes the fill rate is given (the amount of water is two times the the time or minutes). Compare this response to Practice Set 1, Paper 8 which also does not provide a complete explanation and contrast with Practice Set 1, Paper 2, which specifically mentions both minutes and gallons and provides work dividing 12.5 by 2 to get 6.25.
p1-10	**AAAYIP1382 0000569257**	**2**	**Practice Set 1, Paper 10** **Score Point 2** This response receives full credit. It includes the two required elements. • The correct answer is given [6.25 (or 6 and 15 seconds) minutes]. • It includes a complete explanation which uses the fill rate to figure the time taken to fill the container to overflowing (every 15 seconds it fills up half a gallon… for every minute it fills up 2 gallons. I counted on my fingers to show how many minutes… and got 6 [minutes] and 12 [gallons]. I then addes 15 seconds because it could still hold one more half gallon of water to be filled). This student uses a similar process to Practice Set 1, Paper 7.

Practice Set #2
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p2-1	**AAAYIP1382 0000043854**	**1**	**Practice Set 2, Paper 1** **Score Point 1** This response receives partial credit. It includes one of the two required elements. • It provides a complete explanation with a correct strategy, determining the flow rate (find out how many gallons per minute then divdie by 12.5, 1 ÷ .05 = 2) and dividing the capacity by the flow rate (12.5 ÷ 2 = 6.5). A calculation error leads to an incorrect answer (6.5) because 12.5 divided by 2 does not equal 6.5.
p2-2	**AAAYIP1382 0000217386**	**2**	**Practice Set 2, Paper 2** **Score Point 2** This response receives full credit. It includes the two required elements. • It includes the correct answer (6.25 minuets). • A complete explanation with the necessary work is included. The increase in both time and gallons is simultaneously undertaken, which yields the container's 12.5-gallon capacity in 6.25 minutes (if you multiply 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… takes 0.25 minuets to fill up 0.5 gallons of water so i then added 0.25 to 6).
p2-3	**AAAYIP1382 0000775135**	**1**	**Practice Set 2, Paper 3** **Score Point 1** This response receives partial credit. It includes one of the two required elements. • It provides the correct answer (6.25). No explanation is given.

Paper	RF Number	Score	Notes
p2-4	**AAAYIP1382 0000055104**	**0**	**Practice Set 2, Paper 4** **Score Point 0** This response receives no credit. It includes none of the two required elements. An incorrect answer is given (5.5 minutes) An incomplete explanation is given. Although the response states there is a pattern, it does not give the pattern as the ratio of minutes to gallons, only increasing numbers of minutes.
p2-5	**AAAYIP1382 0000503270**	**2**	**Practice Set 2, Paper 5** **Score Point 2** This response receives full credit. It includes the two required elements. • It includes the correct answer (6.25 minutes). • A complete explanation with the necessary work is included. The division identifies the significance of 0.5 used in the following multiplication, as the amount of time to add one gallon of water to the container. The multiplication then determines the number of minutes needed to fill the container to overflowing (I time 12.5 by 0.5 and got 6.25 minutes).
p2-6	**AAAYIP1382 0000524085**	**0**	**Practice Set 2, Paper 6** **Score Point 0** This response receives no credit. It includes none of the two required elements. The answer is incorrect (12.5 gallons) because it does not address time. No explanation is given.

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p2-7	**AAAYIP1382 0000641634**	**1**	**Practice Set 2, Paper 7** **Score Point 1** This response receives partial credit. It includes one of the two required elements. • It provides a complete explanation with a correct strategy (12.5 x 0.5 = 62.5). The given answer is incorrect, (62.5). It has the decimal point too far to the right one place. See Practice Set 2, Paper 1 which also provides a correct process with a calculation error.
p2-8	**AAAYIP1382 0000116776**	**1**	**Practice Set 2, Paper 8** **Score Point 1** This response receives partial credit. It includes one of the two required elements. • It includes the correct answer (6.25 minets). The explanation provides partial but incomplete work (adding 1.5 each 0.75 minute.I kept adding that till i got to 12.5 gallons). Contrast with Practice Set 1, Papers 7 and 10 which provide an explanation that goes beyond the information provided in the chart.
p2-9	**AAAYIP1382 0000123556**	**0**	**Practice Set 2, Paper 9** **Score Point 0** This response receives no credit. It includes none of the two required elements. An incorrect answer is given (6 minutes) Incorrect work is provided (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). It does not address the remaining half gallon of water.

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p2-10	**AAAYIP1382 0000696914**	**2**	**Practice Set 2, Paper 10** **Score Point 2** This response receives full credit. It includes the two required elements. • It includes the correct answer (6.25 meaning after 6 minutes 15 seconds). • The complete explanation is given. The strategy employed first determines the number of half gallons the container will hold (12.5 ÷ 0.5 = 25), then multiplies that by the time needed to add each ½ gallon (25 x .25 = 6.25).

Qualification Set #1
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Paper	RF Number	Score	Notes
q1-1	AAAYIP1382 0000022976	2	Qualification Set 1, Paper 1 Score Point 2
q1-2	AAAYIP1382 0000216510	1	Qualification Set 1, Paper 2 Score Point 1
q1-3	AAAYIP1382 0000283342	1	Qualification Set 1, Paper 3 Score Point 1
q1-4	AAAYIP1382 0000346245	0	Qualification Set 1, Paper 4 Score Point 0
q1-5	AAAYIP1382 0000478394	1	Qualification Set 1, Paper 5 Score Point 1
q1-6	AAAYIP1382 0000034217	2	Qualification Set 1, Paper 6 Score Point 2
q1-7	AAAYIP1382 0000162820	0	Qualification Set 1, Paper 7 Score Point 0
q1-8	AAAYIP1382 0000047229	1	Qualification Set 1, Paper 8 Score Point 1
q1-9	AAAYIP1382 0000043793	2	Qualification Set 1, Paper 9 Score Point 2
q1-10	AAAYIP1382 0000139226	0	Qualification Set 1, Paper 10 Score Point 0

Qualification Set #2
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Paper	RF Number	Score	Notes
q2-1	AAAYIP1382 0000043455	2	Qualification Set 2, Paper 1 Score Point 2
q2-2	AAAYIP1382 0000059430	1	Qualification Set 2, Paper 2 Score Point 1
q2-3	AAAYIP1382 0000157589	1	Qualification Set 2, Paper 3 Score Point 1
q2-4	AAAYIP1382 0000344098	0	Qualification Set 2, Paper 4 Score Point 0
q2-5	AAAYIP1382 0000401687	1	Qualification Set 2, Paper 5 Score Point 1
q2-6	AAAYIP1382 0000389821	0	Qualification Set 2, Paper 6 Score Point 0
q2-7	AAAYIP1382 0000629922	1	Qualification Set 2, Paper 7 Score Point 1
q2-8	AAAYIP1382 0000029466	2	Qualification Set 2, Paper 8 Score Point 2
q2-9	AAAYIP1382 0000725736	0	Qualification Set 2, Paper 9 Score Point 0
q2-10	AAAYIP1382 0000016572	2	Qualification Set 2, Paper 10 Score Point 2