



The Trolls' Capacity Problems

I can solve problems involving addition and subtraction of millilitres.



Here are the results of the first 2 rounds of the 'Fill the Teacup' event from the Trolls' Sports Day. Each team tried to fill a teacup (which holds 250ml) using teaspoons and tablespoons.

Remember: 1 teaspoon = 5ml 1 tablespoon = 15ml 1 teacup = 250ml

Team A	Round 1	Round 2	Team B	Round 1	Round 2
Player 1	teaspoon	tablespoon	Player 1	teaspoon	tablespoon
Player 2	teaspoon	tablespoon	Player 2	tablespoon	teaspoon
Player 3	teaspoon	tablespoon	Player 3	teaspoon	tablespoon
Player 4	tablespoon	tablespoon	Player 4	tablespoon	teaspoon

- 1) How many millilitres did each team have in their teacup after Round 1?

Team A _____ ml Team B _____ ml

- 2) How many millilitres did Players 3 and 4 from Team A put in their teacup together in Rounds 1 and 2?

Players 3 and 4 from Team A put _____ ml in their teacup.

- 3) How many more millilitres does Team A need to add to fill their teacup?

Team A needs _____ ml more to fill their teacup.

- 4) How many more millilitres does Team B need to add to fill their teacup?

Team B needs _____ ml more to fill their teacup.





The Trolls' Capacity Problems **Answers**

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Question	Answer
1.	How many millilitres did each team have in their teacup after Round 1?
Team A 30 ml Team B 40 ml	
2.	How many millilitres did Players 3 and 4 from Team A put in their teacup together in Rounds 1 and 2?
Players 3 and 4 from Team A put 50 ml in their teacup.	
3.	How many more millilitres does Team A need to add to fill their teacup?
Team A needs 160 ml more to fill their teacup.	
4.	How many more millilitres does Team B need to add to fill their teacup?
Team B needs 170 ml more to fill their teacup.	



The Trolls' Capacity Problems

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Here are the results of the first 3 rounds of the 'Fill the Teacup' event from the Trolls' Sports Day. Each team tried to fill a teacup (which holds 250ml) using teaspoons and tablespoons.

Remember: 1 teaspoon = 5ml 1 tablespoon = 15ml 1 teacup = 250ml

Team A	Round 1	Round 2	Round 3	Team B	Round 1	Round 2	Round 3
Player 1	teaspoon	tablespoon	tablespoon	Player 1	teaspoon	tablespoon	tablespoon
Player 2	teaspoon	tablespoon	teaspoon	Player 2	tablespoon	teaspoon	teaspoon
Player 3	teaspoon	tablespoon	teaspoon	Player 3	teaspoon	tablespoon	tablespoon
Player 4	tablespoon	tablespoon	teaspoon	Player 4	tablespoon	teaspoon	tablespoon

- 1) How many millilitres did each team have in their teacup after Rounds 1 and 2?

Team A _____ ml Team B _____ ml

- 2) How many millilitres did Players 2 and 3 from Team B put in their teacup altogether during Rounds 1, 2 and 3?

Players 2 and 3 from Team B put _____ ml in their teacup.

- 3) How many more millilitres does Team B need to add to fill their teacup?

Team B needs _____ ml more to fill their teacup.

- 4) How many more millilitres does Team A need to add to fill their teacup?

Team A needs _____ ml more to fill their teacup.





The Trolls' Capacity Problems **Answers**

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Question	Answer
1.	How many millilitres did each team have in their teacup after Rounds 1 and 2?
Team A 90 ml Team B 80 ml	
2.	How many millilitres did Players 2 and 3 from Team B put in their teacup altogether during Rounds 1, 2 and 3?
Players 2 and 3 from Team B put 60 ml in their teacup.	
3.	How many more millilitres does Team B need to add to fill their teacup?
Team B needs 120 ml more to fill their teacup.	
4.	How many more millilitres does Team A need to add to fill their teacup?
Team A needs 130 ml more to fill their teacup.	



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Here are the results of the first 3 rounds of the 'Fill the Teacup' event from the Trolls' Sports Day. Each team tried to fill a teacup (which holds 250ml) using teaspoons and tablespoons.

Remember: 1 teaspoon = 5ml 1 tablespoon = 15ml 1 teacup = 250ml

Team A	Round 1	Round 2	Round 3	Team B	Round 1	Round 2	Round 3
Player 1	teaspoon	tablespoon	tablespoon	Player 1	teaspoon	tablespoon	tablespoon
Player 2	teaspoon	tablespoon	teaspoon	Player 2	tablespoon	teaspoon	teaspoon
Player 3	teaspoon	tablespoon	teaspoon	Player 3	teaspoon	tablespoon	tablespoon
Player 4	tablespoon	tablespoon	teaspoon	Player 4	tablespoon	teaspoon	tablespoon

- 1) How many millilitres did each team have in their teacup after 3 rounds?

Team A _____ ml Team B _____ ml

- 2) How many millilitres did Players 3 and 4 from Team B put in their teacup altogether during Rounds 1, 2 and 3?

Players 3 and 4 from Team B put _____ ml in their teacup.

- 3) a) How many more millimetres does Team A need to add to fill their teacup?

Team A needs _____ ml more to fill their teacup.

- b) How can they make this amount out of tablespoons and teaspoons? For example:
If 35 more ml was needed they could use 2 tablespoons and 1 teaspoon.



Team B	Round 1	Round 2	Round 3
Player 1	teaspoon	tablespoon	tablespoon
Player 2	tablespoon	teaspoon	teaspoon
Player 3	teaspoon	tablespoon	tablespoon
Player 4	tablespoon	teaspoon	tablespoon

- 4) a) How many more millimetres does Team B need to add to fill their teacup?

Team B needs _____ ml more to fill their teacup.

- b) How can they make this amount out of tablespoons and teaspoons?





The Trolls' Capacity Problems **Answers**

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Question	Answer
1.	How many millilitres did each team have in their teacup after 3 rounds?
Team A 120 ml Team B 130 ml	
2.	How many millilitres did Players 3 and 4 from Team B put in the teacup altogether during Rounds 1, 2 and 3?
Players 3 and 4 from Team B put 70 ml in their teacup.	
3.	How many more millilitres does Team A need to add to fill their teacup?
a. Team A needs 130 ml more to fill their teacup.	
b. <i>Variety of possible answers which show tablespoons and teaspoons which add up to 130ml.</i>	
4.	How many more millilitres does Team B need to add to fill their teacup?
a. Team B needs 120 ml more to fill their teacup.	
b. <i>Variety of possible answers which show tablespoons and teaspoons which add up to 120ml.</i>	