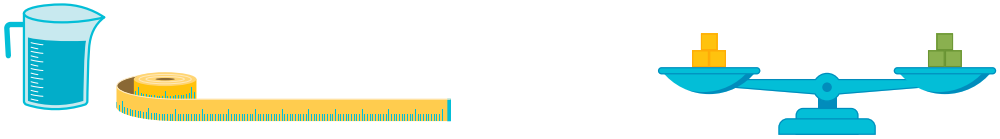
Number Talks: Measurement Conversion

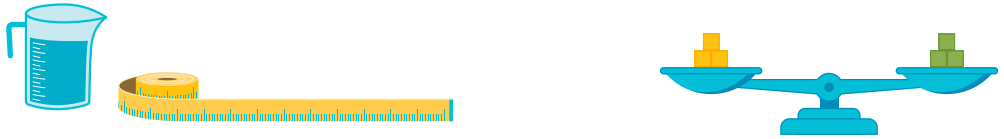
5000 m = _____ km



teachstarter

Number Talks: Measurement Conversion

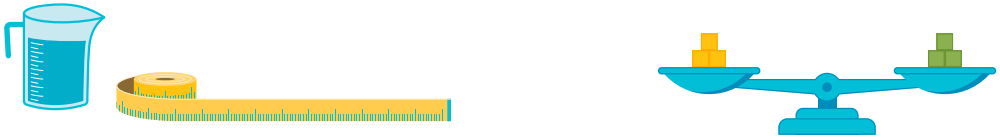
7.5 L = _____ mL



teachstarter

Number Talks: Measurement Conversion

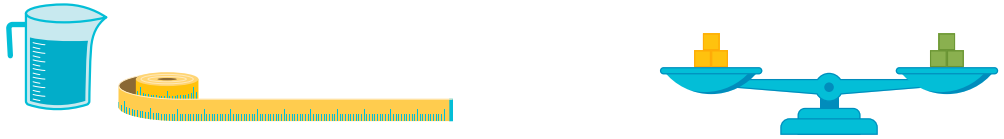
_____ mm = 15 cm



teachstarter

Number Talks: Measurement Conversion

_____ kg = 320 g



teachstarter

Number Talks: Measurement Conversion

Specific prompts include:

- What is the known unit in this problem? What unit do we want to know? What is the relationship between these two units? How do you know?
- What are some ways to determine the solution? How can you prove this to be true?
- What are some ways to show this conversion using a model? Why did you choose to model it in this way?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write a word problem that reflects this conversion. Share it with a partner. How does your problem reflect the conversion?

(Answer: 7500 mL)

Number Talks: Measurement Conversion

Specific prompts include:

- What is the known unit in this problem? What unit do we want to know? What is the relationship between these two units? How do you know?
- What are some ways to determine the solution? How can you prove this to be true?
- What are some ways to show this conversion using a model? Why did you choose to model it in this way?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write a word problem that reflects this conversion. Share it with a partner. How does your problem reflect the conversion?

(Answer: 5 km)

teachstarter

Number Talks: Measurement Conversion

Specific prompts include:

- What is the known unit in this problem? What unit do we want to know? What is the relationship between these two units? How do you know?
- What are some ways to determine the solution? How can you prove this to be true?
- What are some ways to show this conversion using a model? Why did you choose to model it in this way?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write a word problem that reflects this conversion. Share it with a partner. How does your problem reflect the conversion?

(Answer: 0.32kg)

teachstarter

Number Talks: Measurement Conversion

Specific prompts include:

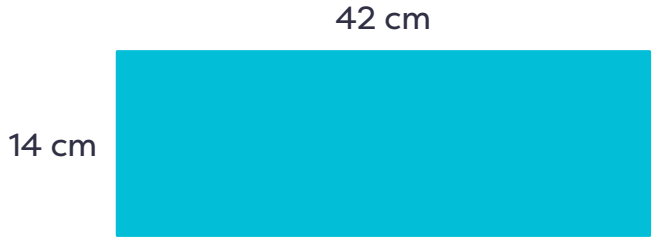
- What is the known unit in this problem? What unit do we want to know? What is the relationship between these two units? How do you know?
- What are some ways to determine the solution? How can you prove this to be true?
- What are some ways to show this conversion using a model? Why did you choose to model it in this way?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write a word problem that reflects this conversion. Share it with a partner. How does your problem reflect the conversion?

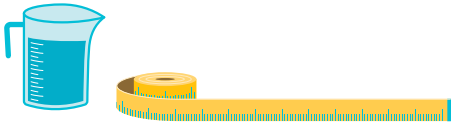
(Answer: 150 mm)

teachstarter

Number Talks: Measurement Conversion

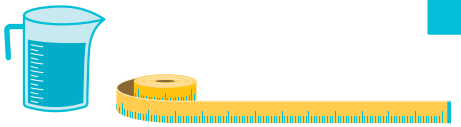
What is the perimeter in metres?





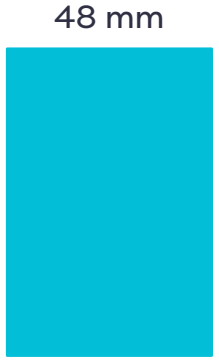
Number Talks: Measurement Conversion

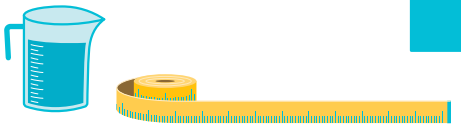
What is the perimeter in kilometres?



Number Talks: Measurement Conversion

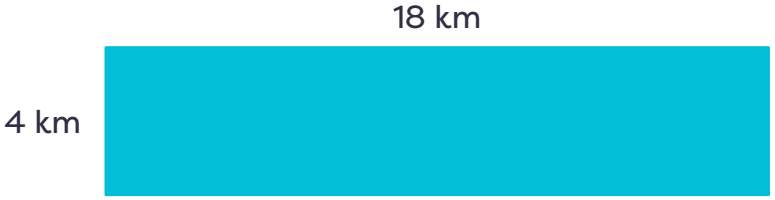
What is the area in metres?

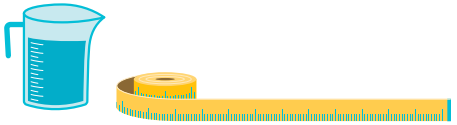




Number Talks: Measurement Conversion

What is the area in centimetres?





Number Talks: Measurement Conversion

Specific prompts include:

- What is the known unit in this problem? What unit do we want to know? What is the relationship between these two units? How do you know?
- What are some ways to determine the solution? How can you prove this to be true?
- What are some ways to show this conversion using a model? Why did you choose to model it in this way?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write a word problem that reflects this conversion. Share it with a partner. How does your problem reflect the conversion?

(Answer: 0.044 km)

Number Talks: Measurement Conversion

Specific prompts include:

- What is the known unit in this problem? What unit do we want to know? What is the relationship between these two units? How do you know?
- What are some ways to determine the solution? How can you prove this to be true?
- What are some ways to show this conversion using a model? Why did you choose to model it in this way?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write a word problem that reflects this conversion. Share it with a partner. How does your problem reflect the conversion?

(Answer: 1.12 m)

teachstarter

Number Talks: Measurement Conversion

Specific prompts include:

- What is the known unit in this problem? What unit do we want to know? What is the relationship between these two units? How do you know?
- What are some ways to determine the solution? How can you prove this to be true?
- What are some ways to show this conversion using a model? Why did you choose to model it in this way?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write a word problem that reflects this conversion. Share it with a partner. How does your problem reflect the conversion?

(Answer: 7 200 000 cm)

teachstarter

Number Talks: Measurement Conversion

Specific prompts include:

- What is the known unit in this problem? What unit do we want to know? What is the relationship between these two units? How do you know?
- What are some ways to determine the solution? How can you prove this to be true?
- What are some ways to show this conversion using a model? Why did you choose to model it in this way?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write a word problem that reflects this conversion. Share it with a partner. How does your problem reflect the conversion?

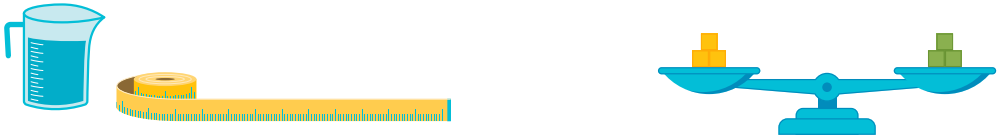
(Answer: 3.456 m)

teachstarter

Number Talks: Measurement Conversion

Which is smaller?

2.5 km or 3000 cm

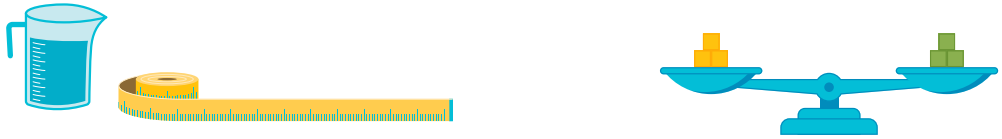


teachstarter

Number Talks: Measurement Conversion

Which is larger?

45 mL or 0.5 L

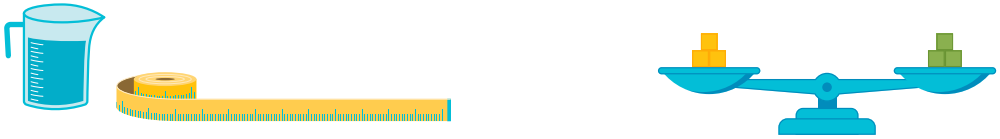


teachstarter

Number Talks: Measurement Conversion

Which is smaller?

81 mm or 0.9 m

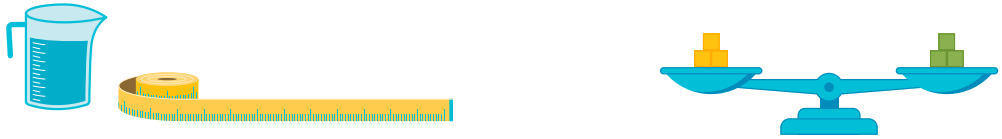


teachstarter

Number Talks: Measurement Conversion

Which is larger?

15 000 mg or 500 g



teachstarter

Number Talks: Measurement Conversion

Specific prompts include:

- What is the relationship between these two units? How do you know?
- What are some ways to determine the solution? How can you prove this to be true?
- How can we use a model to help determine the solution? Why did you choose to model it in this way?
- What could we be measuring with these units?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write a word problem that reflects this comparison. Share it with a partner. How does your problem reflect the comparison?

(Answer: 0.5 L)

Number Talks: Measurement Conversion

Specific prompts include:

- What is the relationship between these two units? How do you know?
- What are some ways to determine the solution? How can you prove this to be true?
- How can we use a model to help determine the solution? Why did you choose to model it in this way?
- What could we be measuring with these units?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write a word problem that reflects this comparison. Share it with a partner. How does your problem reflect the comparison?

(Answer: 3000 cm)

Number Talks: Measurement Conversion

Specific prompts include:

- What is the relationship between these two units? How do you know?
- What are some ways to determine the solution? How can you prove this to be true?
- How can we use a model to help determine the solution? Why did you choose to model it in this way?
- What could we be measuring with these units?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write a word problem that reflects this comparison. Share it with a partner. How does your problem reflect the comparison?

(Answer: 500 g)

Number Talks: Measurement Conversion

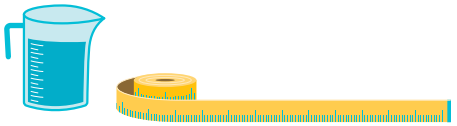
Specific prompts include:

- What is the relationship between these two units? How do you know?
- What are some ways to determine the solution? How can you prove this to be true?
- How can we use a model to help determine the solution? Why did you choose to model it in this way?
- What could we be measuring with these units?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write a word problem that reflects this comparison. Share it with a partner. How does your problem reflect the comparison?

(Answer: 81 mm)

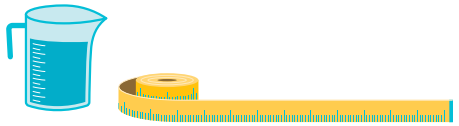
Number Talks: Measurement Conversion

Ms Sanders brought 52 L of water to the excursion to share with her students. She divided the water equally between 4 coolers. How many millilitres of water did Ms Sanders put in each cooler?



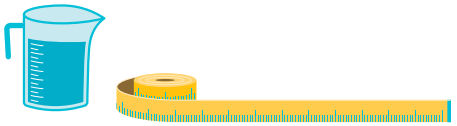
Number Talks: Measurement Conversion

During a science experiment, a group of students added 750 mL of water to 9 beakers. How many total litres of water did the students use in the science experiment?



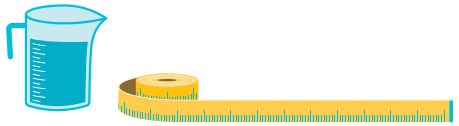
Number Talks: Measurement Conversion

The doctor ordered her patient to take 275 mg of medicine two times a day for 7 days. How many grams of medicine did the patient take at the end of 7 days?



Number Talks: Measurement Conversion

Damian lives 12 km from school. If his mum drives him to and from school each day for one week, how many metres do they drive in all?



Number Talks: Measurement Conversion

Specific prompts include:

- What is the known unit in this problem? What unit do we want to know? What is the relationship between these units? How do you know?
- What are some ways to solve this problem? How can you prove this to be true?
- How can we use a model to help determine the solution? Why did you choose to model it in this way?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write an expression that represents this problem. Share your expression with a partner. Why did you choose to represent it in this way?

(Answer: 6.75 L)

Number Talks: Measurement Conversion

Specific prompts include:

- What is the known unit in this problem? What unit do we want to know? What is the relationship between these units? How do you know?
- What are some ways to solve this problem? How can you prove this to be true?
- How can we use a model to help determine the solution? Why did you choose to model it in this way?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write an expression that represents this problem. Share your expression with a partner. Why did you choose to represent it in this way?

(Answer: 13 000 mL)

Number Talks: Measurement Conversion

Specific prompts include:

- What is the known unit in this problem? What unit do we want to know? What is the relationship between these units? How do you know?
- What are some ways to solve this problem? How can you prove this to be true?
- How can we use a model to help determine the solution? Why did you choose to model it in this way?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write an expression that represents this problem. Share your expression with a partner. Why did you choose to represent it in this way?

(Answer: 120 000 m)

Number Talks: Measurement Conversion

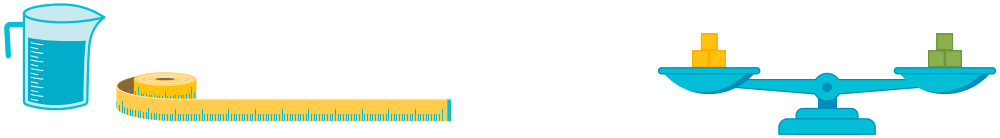
Specific prompts include:

- What is the known unit in this problem? What unit do we want to know? What is the relationship between these units? How do you know?
- What are some ways to solve this problem? How can you prove this to be true?
- How can we use a model to help determine the solution? Why did you choose to model it in this way?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write an expression that represents this problem. Share your expression with a partner. Why did you choose to represent it in this way?

(Answer: 3.85 g)

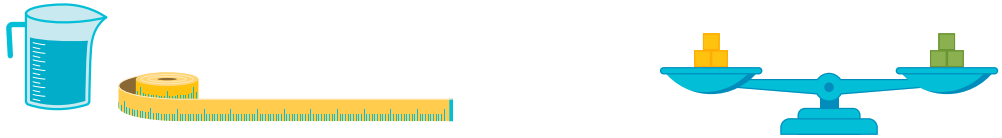
Number Talks: Measurement Conversion

Hanna packed 4 identical books into a box. The total weight of the box when she was finished was 3.1 kg. If the empty box had a weight of 100 g, how many grams did each book weigh?



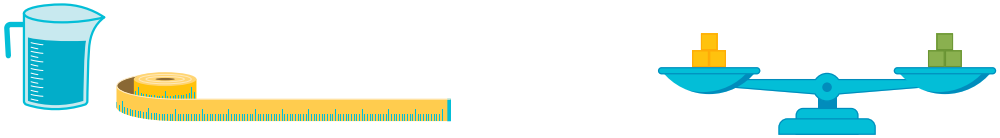
Number Talks: Measurement Conversion

Tina went to the store to buy 5 L of juice for a party at school. The store only sold it in 250 mL cartons. How many cartons did Tina need to buy to have enough juice for the party?



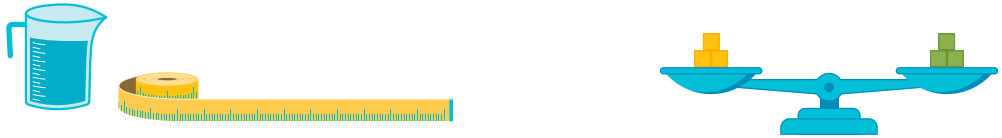
Number Talks: Measurement Conversion

Samantha bought a 6 kg bag of apples at the market on Saturday. She used 750 g to make a cake for her best friend and gave her neighbour 500 g to use. How many kilograms of apples does Samantha have left?



Number Talks: Measurement Conversion

Cheryl bought 10 plums at the market. Each plum weighed 50 g. If the price for plums was $8 per kilogram, how much did Cheryl pay?



Number Talks: Measurement Conversion

Specific prompts include:

- What is the known unit in this problem? What unit do we want to know? What is the relationship between these units? How do you know?
- What are some ways to solve this problem? How can you prove this to be true?
- How can we use a model to help determine the solution? Why did you choose to model it in this way?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write an expression that represents this problem. Share your expression with a partner. Why did you choose to represent it in this way?

(Answer: 20 cartons)

Number Talks: Measurement Conversion

Specific prompts include:

- What is the known unit in this problem? What unit do we want to know? What is the relationship between these units? How do you know?
- What are some ways to solve this problem? How can you prove this to be true?
- How can we use a model to help determine the solution? Why did you choose to model it in this way?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write an expression that represents this problem. Share your expression with a partner. Why did you choose to represent it in this way?

(Answer: 750 g)

teachstarter

Number Talks: Measurement Conversion

Specific prompts include:

- What is the known unit in this problem? What unit do we want to know? What is the relationship between these units? How do you know?
- What are some ways to solve this problem? How can you prove this to be true?
- How can we use a model to help determine the solution? Why did you choose to model it in this way?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write an expression that represents this problem. Share your expression with a partner. Why did you choose to represent it in this way?

(Answer: $4)

teachstarter

Number Talks: Measurement Conversion

Specific prompts include:

- What is the known unit in this problem? What unit do we want to know? What is the relationship between these units? How do you know?
- What are some ways to solve this problem? How can you prove this to be true?
- How can we use a model to help determine the solution? Why did you choose to model it in this way?
- What are some measurements equivalent to the solution? How do you know they are equivalent?
- What are some measurements smaller/larger than the solution? How do you know they are smaller/larger?
- Write an expression that represents this problem. Share your expression with a partner. Why did you choose to represent it in this way?

(Answer: 4.75 kg)

teachstarter