

What is found in an Engaging Mathematics TEKS-based activity?

Each activity addresses a specific student expectation that is reflected in the content objective.

Common classroom materials are used for ease of preparation. Materials are listed 1-per-student unless otherwise noted. Page titles for student handouts are represented with bold font.

Application Problems Involving Rational Numbers, Activity 4 7(3)(B)

Activity Objective

The student will solve application problems involving rational numbers.

Materials

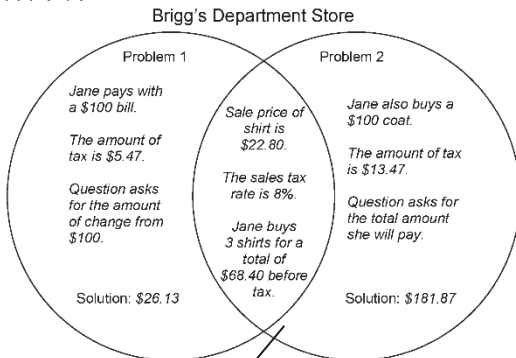
- Brigg's Department Store

Facilitation Questions

- **What does the overlapping section of the two circles represent?**
The overlapping section represents in common information between the two word problems.
- **How can you determine the sale price of a shirt?**
Possible answer: I can determine $\frac{1}{5}$ of \$28.50 and subtract that value from \$28.50. I can determine $\frac{4}{5}$ of \$28.50.
- **Will the amount of sales tax for the two situations be the same? Why?**
No, because the total amount of the purchase is different for each situation. In Problem 2, Jane also buys a coat.
- **How can you determine the amount of sales tax?**
I can multiply the total cost of the items without tax by 0.08.

Answers

Possible answers:



Students should have continuous access to STAAR® Reference Materials that will be made available for the assessment.

Facilitation questions are provided for teacher use when supporting student thinking and discourse.

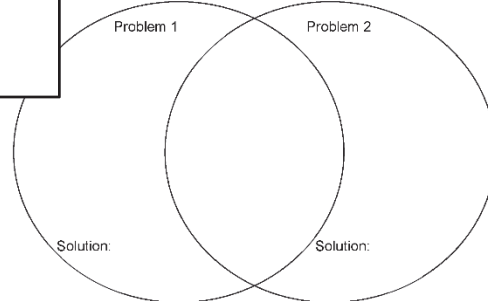
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Brigg's Department Store

Contrast the two word problems using the Venn diagram question.

Problem 1	Problem 2
At Brigg's Department Store, shirts that are priced at \$28.50 are on sale for 80% of the regular price. The sales tax rate is 8%. Jane buys 3 shirts and pays a bill. How much change does she get?	At Brigg's Department Store, the sale price for shirts is 80% of the regular price of \$28.50. The sales tax rate is 8%. Jane buys a coat for \$100 and 3 shirts. What is the total cost of these items?

Brigg's Department Store



An answer key is included for each activity.

Each activity includes an opportunity for students to articulate and summarize aspects of their learning.

Communicating about Mathematics

Describe the context clues in each word problem that you used to make decisions about how to answer each question.
