Unit 3 Lesson 14: Solving Percentage Problems

1 Number Talk: Multiplication with Decimals (Warm up)

Student Task Statement

Find the products mentally.

$$6 \cdot (0.8) \cdot 2$$

$$(4.5) \cdot (0.6) \cdot 4$$

2 Coupons

Images for Launch

SATURDAY ONLY!

10% OFF

your store purchase of one single item. Exclusions apply.



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Student Task Statement

Han and Clare go shopping, and they each have a coupon. Answer each question and show your reasoning.

1. Han buys an item with a normal price of \$15, and uses a 10% off coupon. How much does he save by using the coupon?



2. Clare buys an item with a normal price of \$24, but saves \$6 by using a coupon. For what percentage off is this coupon?

3 Info Gap: Music Devices

Student Task Statement

Your teacher will give you either a *problem card* or a *data card*. Do not show or read your card to your partner.

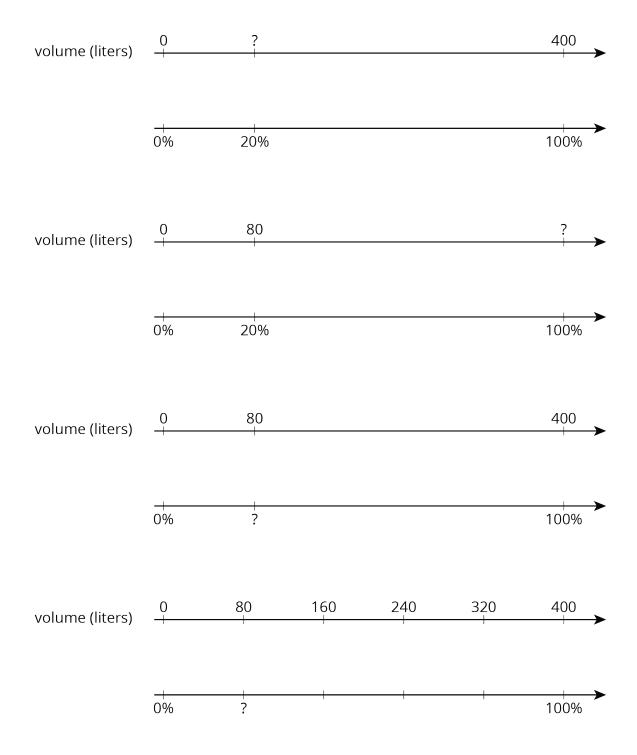
If your teacher gives you the *problem card*:

- 1. Silently read your card and think about what information you need to be able to answer the question.
- 2. Ask your partner for the specific information that you need.
- 3. Explain how you are using the information to solve the problem.
 - Continue to ask questions until you have enough information to solve the problem.
- 4. Share the *problem card* and solve the problem independently.
- 5. Read the *data card* and discuss your reasoning.

If your teacher gives you the data card:

- 1. Silently read your card.
- 2. Ask your partner "What specific information do you need?" and wait for them to ask for information.
 - If your partner asks for information that is not on the card, do not do the calculations for them. Tell them you don't have that information.
- 3. Before sharing the information, ask "Why do you need that information?" Listen to your partner's reasoning and ask clarifying questions.
- 4. Read the *problem card* and solve the problem independently.
- 5. Share the *data card* and discuss your reasoning.

Images for Activity Synthesis



	volume (liters)	percentage	
• <u>1</u> 5	400	100	1/5
	80	20	