5.G Always, Sometimes, Never

Task

Decide whether each of these statements is always, sometimes, or never true. If it is sometimes true, draw and describe a figure for which the statement is true and another figure for which the statement is not true.

a. A rhombus is a square
b. A triangle is a parallelogram
c. A square is a parallelogram
d. A square is a rhombus
e. A parallelogram is a rectangle
f. A trapezoid is a quadrilateral
5.NBT Drawing Pictures to Illustrate Decimal Comparisons

Task

a. Which is greater, 0.01 or 0.001? Explain. Draw a picture to illustrate your explanation.

b. Which is greater, 0.03 or 0.007? Explain. Draw a picture to illustrate your explanation.

c. Which is greater, 0.025 or 0.052? Explain. Draw a picture to illustrate your explanation.

d. Which is greater, 0.13 or 0.031? Explain. Draw a picture to illustrate your explanation.

e. Which is greater, 0.203 or 0.21? Explain. Draw a picture to illustrate your explanation.
6.NS Video Game Credits

Task

It requires $\frac{1}{4}$ of a credit to play a video game for one minute.

a. Emma has $\frac{7}{8}$ credits. Can she play for more or less than one minute? Explain how you know.

b. How long can Emma play the video game with her $\frac{7}{8}$ credits?
7.RP Molly's Run

Task

Molly runs \( \frac{1}{3} \) of a mile in 4 minutes.

a. If Molly continues at the same speed, how long will it take her to run one mile?

b. Draw and label a picture showing why your answer to part (a) makes sense.
7.RP Cider versus Juice - Variation 1

Task

The price of a gallon of apple cider is $7.00. The price of eight 4.23-ounce juice boxes is $2.39.

a. Suppose the juice was instead packaged like the cider. Approximately what is the cost per gallon of the juice?

b. Suppose the cider was instead packaged like the juice. Approximately what is the cost per eight 4.23-ounce boxes of cider?

c. Peter wants to have at least a gallon of either only cider or only juice. Which product is the better deal?

d. State the unit rate(s) you used to compare the cost of cider versus juice in your answer to Question c.

e. List two or more additional unit rates that could be used to make this comparison.
7.RP Cider versus Juice - Variation 1
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