Lesson 15 Practice Problems

1. Evaluate each expression, giving the answer in scientific notation:

a. $5.3 \times 10^4 + 4.7 \times 10^4$

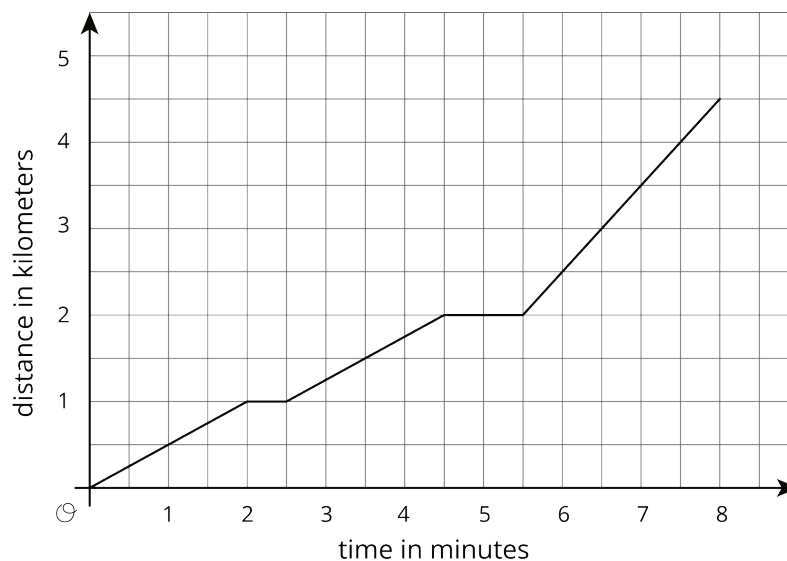b. $3.7 \times 10^6 - 3.3 \times 10^6$

c. $4.8 \times 10^{-3} + 6.3 \times 10^{-3}$

d. $6.6 \times 10^{-5} - 6.1 \times 10^{-5}$

2. a. Write a scenario that describes what is happening in the graph.

b. What is happening at 5 minutes?

c. What does the slope of the line between 6 and 8 minutes mean?

(From Unit 5, Lesson 10.)

3. Apples cost $1 each. Oranges cost $2 each. You have $10 and want to buy 8 pieces of fruit. One graph shows combinations of apples and oranges that total to $10. The other graph shows combinations of apples and oranges that total to 8 pieces of fruit.
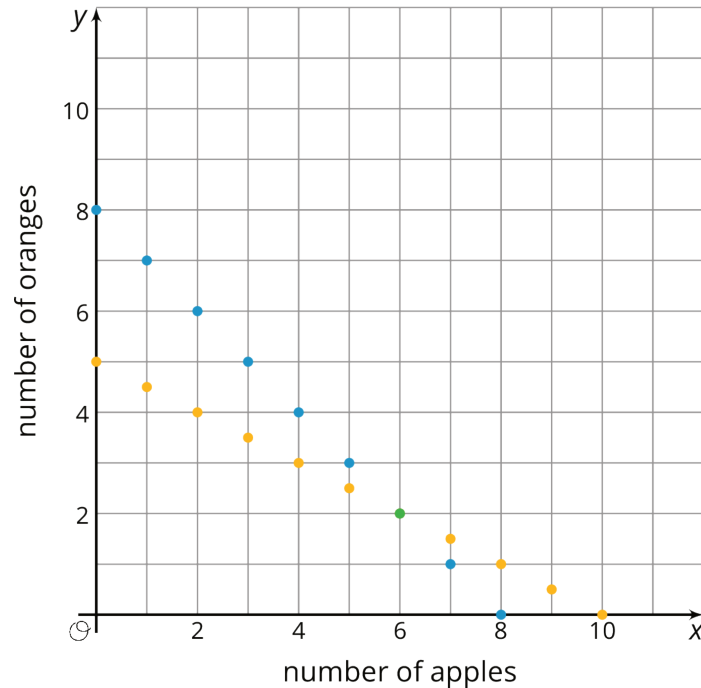
a. Name one combination of 8 fruits shown on the graph that whose cost does *not* total to $10.

b. Name one combination of fruits shown on the graph whose cost totals to $10 that are *not* 8 fruits all together.

c. How many apples and oranges would you need to have 8 fruits that cost $10 at the same time?

(From Unit 4, Lesson 10.)

4. Solve each equation and check your solution.

$-2(3x - 4) = 4(x + 3) + 6$ $\frac{1}{2}(z + 4) - 6 = -2z + 8$

$4w - 7 = 6w + 31$

(From Unit 4, Lesson 5.)

Grade 8 Unit 7
Lesson 15

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