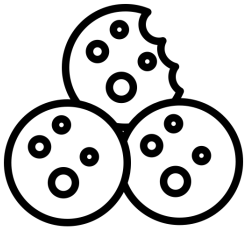
Day 7: Solving Proportions **#7**

For each problem, set up a proportion. Include the units for each ratio. Then solve for the missing value and label your answer with appropriate units. Round answers to the nearest tenth.

1. Sam raked 3 bags of leaves in 16 minutes. If he continues to work at the same rate, about how long will it take him to rake 5 bags?	Proportion with Units _____ = _____	Work + Solution
2. Amy earned $25 after babysitting for 3 hours. If she always charges the same rate, how much will she make after working for 7 hours?	Proportion with Units _____ = _____	Work + Solution
3. A 2-month membership to the gym costs $125. Jim would like to be a member for 8 months. What is the total amount he will pay for 8 months?	Proportion with Units _____ = _____	Work + Solution
4. Bobby drove 110 miles, and his car used up 5 gallons of gas. How many miles can he drive with 16 gallons of gas?	Proportion with Units _____ = _____	Work + Solution
5. Mary ran 2 miles in about 23 minutes. If she continued at the same pace, how long will it take her to run 10 miles?	Proportion with Units _____ = _____	Work + Solution

Write and solve a proportion.

Example 1: To make 24 cookies you need to use 9 ounces of flour. Write and solve a proportion to figure out how many cookies you can make if you only have 5 ounces of flour.



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Ex 1 Continued: Your sister comes home with 124 ounces of flour. How many cookies can you make with 124 ounces of flour?

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Example 2: An architect builds a scale model of CHS. The school is 45 feet high. The ratio of the model to the actual school is 1 foot to 60 feet. Find the height of the model.

Suppose the ratio of the model to the actual school is 1 foot to 100 feet. Find the height of the model.

Day 8 REVIEW **#8**

We will make a review flipbook, use the problems below to create your unit 2 resource. Check your solutions!

TYPICAL EQUATIONS

Choose at least 6 problems from below. Solve each equation, then check your solution.

1) $4 - 3(5n - 6) = 97$

2) $1 + 3v + 5v = 17$

3) $7(7 - 4n) = 22 - n$

4) $5(7n + 4) = 5(8 + 7n)$

5) $2(r - 5) = 2r - 2(1 - 4r)$

6) $8 + \frac{x}{4} = 6$

7) $\frac{r}{3} + 1 = -5$

8) $\frac{6 + n}{9} = -1$

9) $1 = \frac{5 + x}{10}$

PROPORTIONS

Solve each proportion. Check your solution.

10) $\frac{9}{k} = \frac{4}{10}$

11) $\frac{9}{3} = \frac{n}{4}$

12) $\frac{n - 5}{n} = \frac{6}{10}$

13) $\frac{n - 2}{9} = \frac{n - 6}{8}$