

6th Honors: How do we solve word problems?

Complete the warm-up quiz #2: It is not a grade, but you should act like it is a quiz so when we go over it, you will know what you need to study.

$$\begin{aligned}
 1.) & 25 + 5 - (6^2 - 7) \\
 & 25 + 5 - (36 - 7) \\
 & 25 + 5 - 29 \\
 & 30 - 29 \\
 & \boxed{1}
 \end{aligned}$$

$$\begin{aligned}
 2.) & (5-3)^2 \div (3^2-7) \\
 & 2^2 \div (9-7) \\
 & 2^2 \div 2 \\
 & 4 \div 2 \\
 & \boxed{2}
 \end{aligned}$$

$$\begin{aligned}
 3.) & 2 + 3(8.75 - 6.50) \\
 & 2 + 3(2.25) \\
 & 2 + 6.75 \\
 & \boxed{8.75}
 \end{aligned}$$

$$\begin{aligned}
 4.) & 2\frac{1}{2} + \frac{3}{5} \times 4\frac{1}{6} \\
 & 2\frac{1}{2} + \frac{8}{5} \cdot \frac{25}{6} \\
 & 2\frac{1}{2} + \frac{5}{2} \\
 & \boxed{5}
 \end{aligned}$$

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Ex 1: Jon is cooking enough lentils for lentil barley soup and lentil salad. The lentil salad recipe calls for $1\frac{1}{2}$ cups of dried lentils. The lentil soup calls for $\frac{3}{4}$ cup of dried lentils. Jon has a $\frac{1}{8}$ cup scoop. How many scoops of dried lentils will Jon need to have enough for the soup and salad?

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- [1] Important Information
 $\frac{1}{2}$ c. lentils (salad)
 $\frac{3}{4}$ c. lentils (soup)
 $\frac{1}{8}$ c. scoop
 [2] Question
 ? How many scoops

[3] Verbal Model

$$\left[\left(\begin{array}{c} \text{c.} \\ \text{lentils} \\ \text{salad} \end{array} \right) + \left(\begin{array}{c} \text{c.} \\ \text{lentils} \\ \text{soup} \end{array} \right) \right] \div \left(\begin{array}{c} \text{c.} \\ \text{scoop} \end{array} \right)$$

[4] Expression/Equation

$$\left(1\frac{1}{2} + \frac{3}{4} \right) \div \frac{1}{8}$$

$$\begin{aligned}
 & 2\frac{1}{4} \div \frac{1}{8} \\
 & \frac{9}{4} \cdot \frac{8}{1}
 \end{aligned}$$

$$\boxed{18} \text{ scoops}$$

[5] Complete Sentence

Jon needs 18 scoops of lentils.

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Warm-up:

What steps will we show to solve any word problem?

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1. This year Emma is giving each of her grandchildren the same gift. Each gift costs \$22.75. How much does Emma spend on all 12 gifts?

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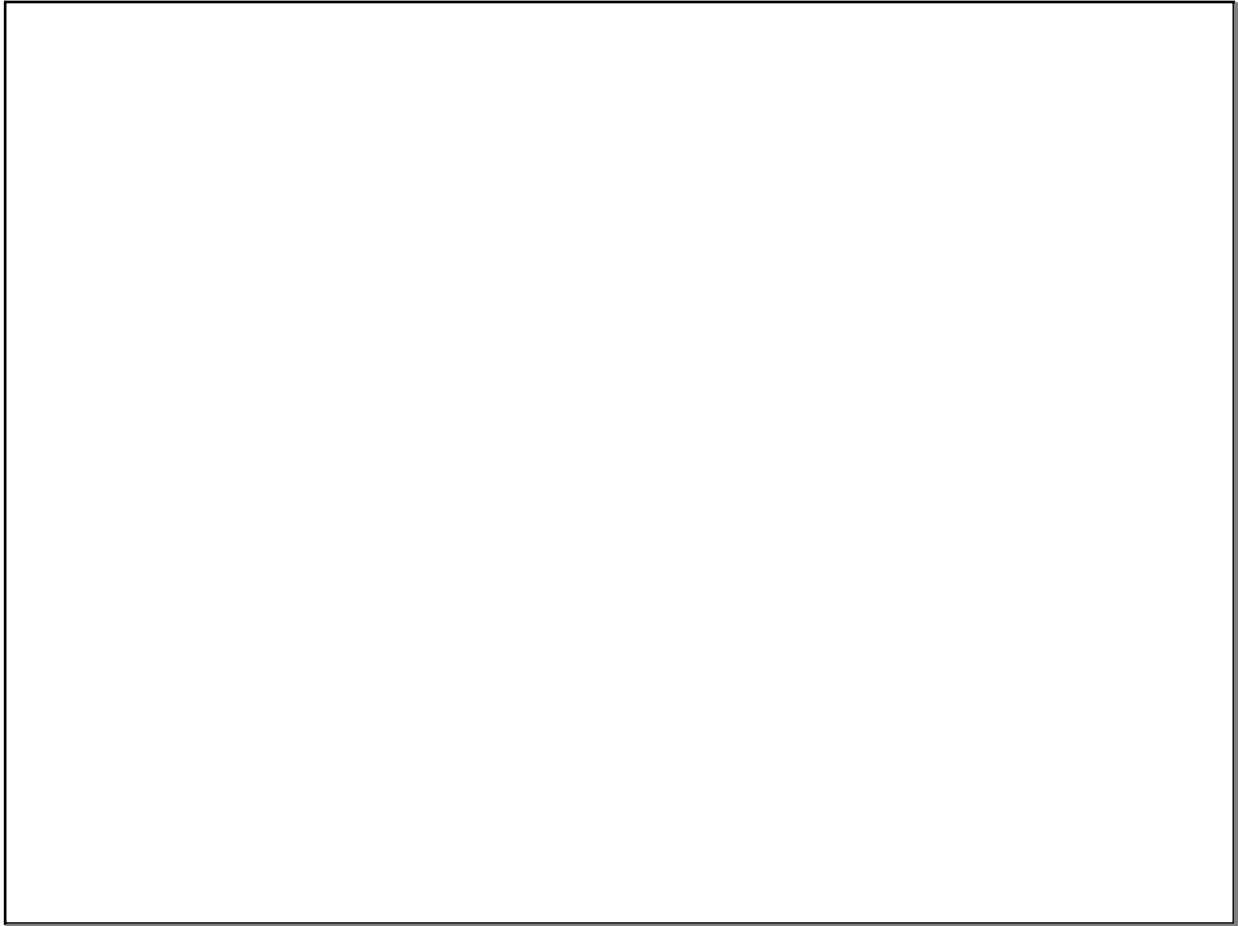
2. Jackson bought 8.6 kg of sugar. He poured the sugar equally into 5 bottles. There was 0.35 kg of sugar left over. What was the mass of sugar in 1 bottle?

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Warm-up:

Jill's mom decides that she will help Jill pay for an outfit at the mall. Jill wants to buy a shirt that costs \$28.80 and a pair of pants that cost \$45.50. Jill's mom said she would pay for one fifth of the cost. How much does Jill have to pay and how much is her mom going to pay?

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Sep 29-10:49 AM