

Worksheet 3 |

Lower Secondary

Word problems

stage (6-8)

1st Semester | 2023-2024

Subject: Math Objectives:

Chapter: 6

To solve various word problems.

Solve the questions below:

1. There were $24\frac{5}{6}$ kg of tomatoes in the barn $7\frac{2}{5}$ kg of tomatoes were rotten and had to be thrown out. How many kilograms of tomatoes were left?

2. The product of two numbers is $7\frac{1}{5}$. If one of them is $2\frac{1}{7}$, find the other number.

$$7 \div 2 \div 2 \div = \frac{36}{5} \div 15$$

$$= \frac{36}{5} \times \frac{3}{5} = \frac{84}{25} = 3\frac{9}{25}$$

3. If it takes $2\frac{1}{12}$ meters of fabric to make a dress, then how many meters will it take to make 9 dresses?

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4. Josh was packing to move to another office. He packed $3\frac{2}{5}$ boxes on Tuesday and $2\frac{9}{10}$ boxes on Wednesday. After everything was moved to his new office on Wednesday afternoon, he Should have $6\frac{11}{20}$ boxes. How many boxes were missing?

$$\frac{51ep2}{6\frac{11}{20}-6\frac{3}{10}} = \frac{5\div 5}{20\div 5} = \boxed{\frac{1}{4} \text{ box}}$$

5. Adam had a meeting on Wednesday for $2\frac{7}{12}$ hours, which is $1\frac{1}{8}$ hour longer than scheduled. How much time was scheduled for the meeting?

$$2 \frac{3 \times 2}{12 \times 2} 1 \frac{3 \times 3}{24}$$

$$2 \frac{14}{24} - 1 \frac{3}{24} = \boxed{1 \frac{11}{24} \text{ hour}}$$

6. Salma needed to write 12 documents during the week. By Wednesday, she only finished $3\frac{1}{5}$ documents. On Thursday, she finished another $5\frac{5}{6}$ documents. If she finished writing all documents by Friday, how much did she write on Friday?

documents. If she finished writing all documents by Friday, how much did she write on Friday?

$$\frac{5 + \varphi 1}{3 + \frac{25}{36} + 5 + \frac{25}{30}} = \frac{31}{30} + \frac{25}{30} = \frac{31}{30} = \frac{9}{30}$$

$$\frac{5 + \varphi 2}{3 + \frac{29}{30}} = \frac{11}{30} - \frac{9}{30} = \frac{11}{30} - \frac{9}{30} = \frac{29}{30} = \frac{29}$$

7. David bought $5\frac{9}{10}$ kg of sugar and consumed it in 45 days. How much did he consume each day?

$$5\frac{9}{10} \div 45$$

 $5\frac{9}{10} \div 45 = 5\frac{9}{10} \times \frac{1}{45} = 5\frac{9}{450} \times \frac{1}{450} \times \frac{1}{$

8. Amy has 72 sweets in a bag. She keeps $\frac{5}{9}$ of them for herself and shares the rest with friends. How many sweets will she give to her friends?

Amy Kept =
$$5 \times 12^8 = 40$$
 sweets
she gave her friends = $72 - 40 = 32$ sweets

9. Sheila is baking a few cakes for the bake sale for her school. Each cake requires $2\frac{1}{2}$ cups of sugar. How many cakes can she bake if she has $7\frac{1}{2}$ cups of sugar?

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$$\frac{22}{3} \div \frac{5}{2} = \frac{22}{3} \times \frac{2}{5} = \frac{44}{15} = 2\frac{14}{15}$$
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10. Julian ran $5\frac{7}{15}$ miles for 3 days in a row. How far did Julian run over those 3 days?

those 3 days?

$$3 \times 5 = 3 \times 82 = 82$$

 $= 16 = 16 = 16$

11. Sophia has 20 multiple choice questions to answer in $30\frac{1}{2}$ minutes. How many minutes does she have for each question?

$$30\cancel{2} \div 20$$

$$\frac{61}{20} \times \frac{1}{20} = \frac{61}{40} = \boxed{1 \frac{21}{40} \text{ minutes}}$$

12. Zaid sleeps $8\frac{11}{24}$ hours every night. How many hours will he sleep in 8 nights?

$$8x \frac{203}{25} = \frac{203}{3} = 67 \frac{2}{3} \text{ hours}$$