

Work Below

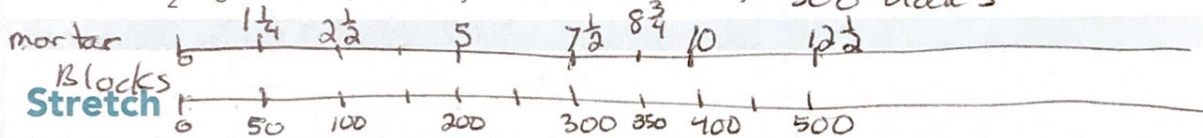
4. A mason is a person who builds structures with bricks, stone, cement block, or tile. A mason usually uses mortar to hold the bricks together. A general rule of thumb in masonry is that $2\frac{1}{2}$ bags of mortar are needed for every 100 cement blocks.

a. Complete a double number line to determine the amount of mortar needed for each quantity of blocks. *Number line below*

b. How many bags of mortar will a mason need for 350 blocks? $8\frac{3}{4}$ bags of mortar

c. How many bags of mortar will a mason need for 50 blocks? $1\frac{1}{4}$ bags of mortar

d. With $12\frac{1}{2}$ bags of mortar, how many blocks can the mason lay? 500 blocks



Scale up or scale down each ratio to complete the proportion.

1. $\frac{7 \text{ cups of red dye}}{10 \text{ cups of yellow dye}} = \frac{?}{25 \text{ cups of yellow dye}}$

2. $\frac{?}{175 \text{ in.}} = \frac{\$42}{50 \text{ in.}}$

3. $\frac{47 \text{ feet}}{60 \text{ seconds}} = \frac{?}{45 \text{ seconds}}$

Review 1:

Part to whole
Wins to total games

Sarah $\frac{7}{10}$

Sophie $\frac{6}{10}$

Grace $\frac{7}{11}$

Sarah wins more than Sophie.

When comparing Sarah + Grace or $\frac{7}{10}$ to $\frac{7}{11}$ there are many ways to show Sarah's ratio is larger.

Coach should go with Sarah.

Review

1. In planning for the upcoming regional girls' tennis tournament, Coach McCarter looked at her players' statistics from the previous 2 months.

Sarah: 7 matches won, 3 matches lost

Sophie: 6 matches won, 4 matches lost

Grace: 7 matches won, 4 matches lost

Based on their records, which player should Coach McCarter choose to attend the regional tournament?

Explain your reasoning.

2. Hydrate sports drink calls for 7 scoops for every gallon of water. Sarah thinks the drink is too weak, and she wants to change it. Describe how she can change either the number of scoops or the amount of water to make the drink stronger.

3. Decide whether each amount is more closely related to volume or surface area.

a. the amount of air in a room

b. the amount of wood in a dog house.

#2 Sarah can increase the # of scoops per gallon.

OR Sarah can keep the scoops the same and decrease the water.

4. Determine each product.

a. $\frac{2}{5} \times \frac{7}{3}$

b. $4\frac{1}{6} \times 3\frac{4}{5}$