

Standards: Grade 5: 5.NF.3, 5.NF.4, 5.NF.5.5, NF.6, 5.NF.7, 5.OA.1, 5.OA.2, 5.MD.1 Standards: Grade 5: 5.NF.3, 5.NF.4, 5.NF.5.5, NF.6, 5.NF.7, 5.OA.1, 5.OA.2, 5.MD.1 Standards: Grade 5: 5.NF.3, 5.NF.4, 5.NF.5.5, NF.6, 5.NF.7, 5.OA.1, 5.OA.2, 5.MD.1

Name _____

Date _____

1. Multiply or divide. Draw a model to explain your thinking.

a. $\frac{1}{2} \times 8$

b. $\frac{1}{2} \times 9$

c. $\frac{3}{5} \times 14$

d. $\frac{3}{5} \times 15$

e. $\frac{1}{2}$ of 3 feet = _____ inches

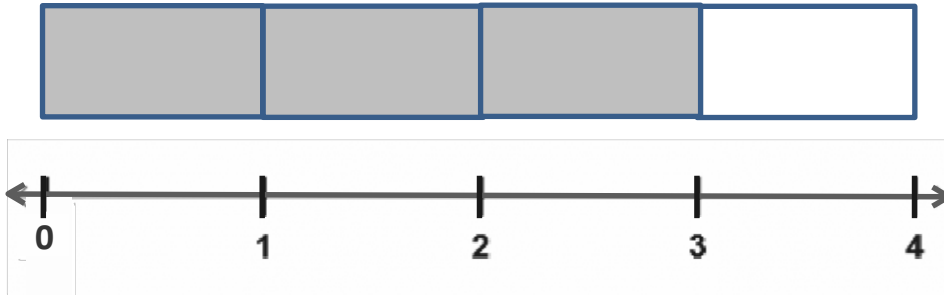
f. $\frac{1}{5}$ of 3 yards = _____ feet

g. $3 + \frac{1}{2} \times 17$

h. $3\frac{3}{4} \times 16$

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2. If the whole bar is 4 units long, what is the length of the shaded part of the bar? Write a multiplication equation for the diagram, and then solve.



3. Circle the expression(s) that are equal to $\frac{2}{5} \times 7$. Explain why the others are *not* equal using words, pictures, or numbers.
- a. $2 \times (7 \div 5)$
 - b. $2 \div (5 \times 7)$
 - c. $(2 \times 7) \div 5$
 - d. $2 \times \frac{7}{5}$

This practice test aligns with Eureka Math Mid Module 4.

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4. Write the following as expressions.

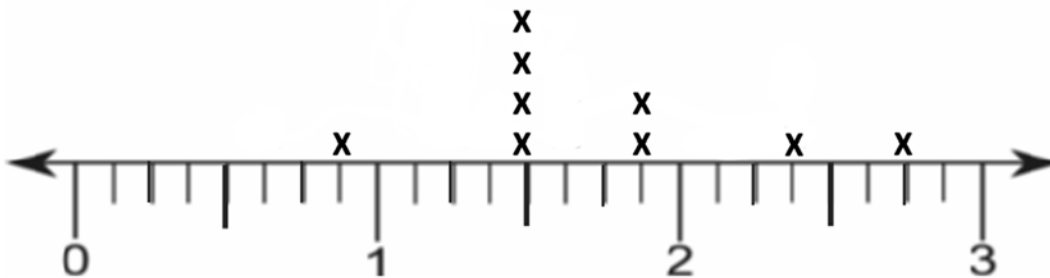
a. One-fourth the sum of 4 and 2.

b. Three times the quotient of 3 and 4.

c. One-fifth the difference between $\frac{2}{3}$ and $\frac{1}{2}$

5. Mr. Haynes used 10 buckets to collect rainfall in various locations on his property. The following line plot shows the amount of rain collected in each bucket in gallons. Write an expression that includes multiplication to show how to find the total amount of water collected in gallons. Then, solve your expression.

Amount of Rain (in gallons)



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6. Mrs. James uses the following recipe for crispy rice treats. She decides to make $\frac{4}{5}$ of the recipe.

3 cups melted butter
32 oz marshmallows
18 cups rice crispy cereal

- a. How much of each ingredient will she need? Write an expression that includes multiplication. Solve by multiplying.
- b. How many fluid ounces of butter will she use? (Use your measurement conversion chart, if you wish.)
- c. When the crispy rice treats have cooled, Mrs. James cuts them into 20 equal pieces. She gives two-fifths of the treats to her son and takes the rest to school. How many treats will Mrs. James take to school? Use any method to solve.