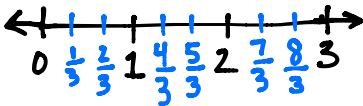


Name _____

Date _____

1. Draw a tape diagram and a number line to solve. Fill in the blanks that follow.

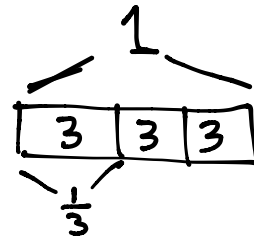
a. $3 \div \frac{1}{3} = \underline{9}$



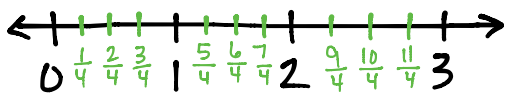
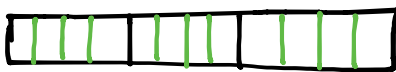
There are 3 thirds in 1 whole.

There are 9 thirds in 3 wholes.

If 3 is $\frac{1}{3}$, what is the whole? 9



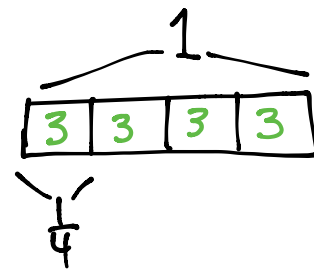
b. $3 \div \frac{1}{4} = \underline{12}$



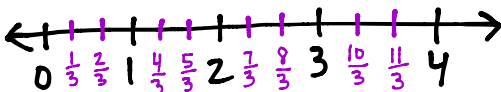
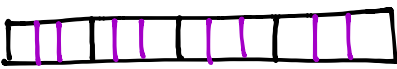
There are 4 fourths in 1 whole.

There are 12 fourths in 3 wholes.

If 3 is $\frac{1}{4}$, what is the whole? 12



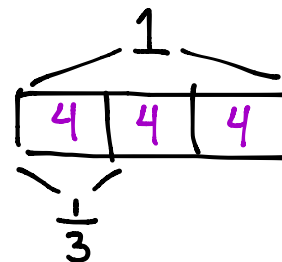
c. $4 \div \frac{1}{3} = \underline{12}$



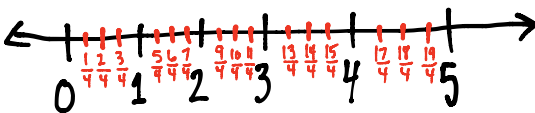
There are 3 thirds in 1 whole.

There are 12 thirds in 4 wholes.

If 4 is $\frac{1}{3}$, what is the whole? 12



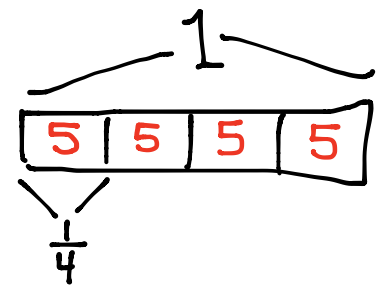
d. $5 \div \frac{1}{4} = \underline{20}$



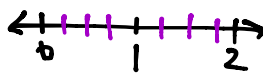
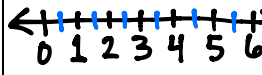
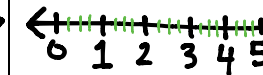
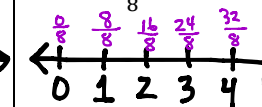
There are 4 fourths in 1 whole.

There are 20 fourths in 5 wholes.

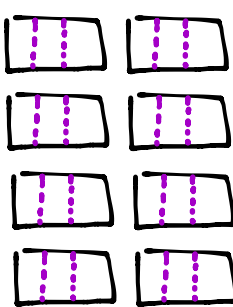
If 5 is $\frac{1}{4}$, what is the whole? 20



2. Divide. Then multiply to check.

<p>a. $2 \div \frac{1}{4} = 8$</p>  <p>$2 \div \frac{1}{4} = 2 \times 4 = 8$</p> <p>$8 \times \frac{1}{4} = \frac{8}{4} = 2 \checkmark$</p>	<p>b. $6 \div \frac{1}{2} = 12$</p>  <p>$6 \div \frac{1}{2} = 6 \times 2 = 12$</p> <p>$12 \times \frac{1}{2} = \frac{12}{2} = 6 \checkmark$</p>	<p>c. $5 \div \frac{1}{4} = 20$</p>  <p>$5 \div \frac{1}{4} = 5 \times 4 = 20$</p> <p>$20 \times \frac{1}{4} = \frac{20}{4} = 5 \checkmark$</p>	<p>d. $5 \div \frac{1}{8} = 40$</p>  <p>$5 \div \frac{1}{8} = 5 \times 8 = 40$</p> <p>$40 \times \frac{1}{8} = \frac{40}{8} = 5 \checkmark$</p>
<p>e. $6 \div \frac{1}{3} = 18$</p> <p>$6 \div \frac{1}{3} = 6 \times 3 = 18$</p> <p>$18 \times \frac{1}{3} = \frac{18}{3} = 6 \checkmark$</p>	<p>f. $3 \div \frac{1}{6} = 18$</p> <p>$3 \div \frac{1}{6} = 3 \times 6 = 18$</p> <p>$18 \times \frac{1}{6} = \frac{18}{6} = 3 \checkmark$</p>	<p>g. $6 \div \frac{1}{5} = 30$</p> <p>$6 \div \frac{1}{5} = 6 \times 5 = 30$</p> <p>$30 \times \frac{1}{5} = \frac{30}{5} = 6 \checkmark$</p>	<p>h. $6 \div \frac{1}{10} = 60$</p> <p>$6 \div \frac{1}{10} = 6 \times 10 = 60$</p> <p>$60 \times \frac{1}{10} = \frac{60}{10} = 6 \checkmark$</p>

3. A principal orders 8 sub sandwiches for a teachers' meeting. She cuts the subs into thirds and puts the mini-subs onto a tray. How many mini-subs are on the tray?



$$8 \div \frac{1}{3} = 8 \times 3 = 24$$

There will be 24 mini-subs on the tray.

4. Some students prepare 3 different snacks. They make $\frac{1}{8}$ pound bags of nut mix, $\frac{1}{4}$ pound bags of cherries, and $\frac{1}{6}$ pound bags of dried fruit. If they buy 3 pounds of nut mix, 5 pounds of cherries, and 4 pounds of dried fruit, how many of each type of snack bag will they be able to make?

Nut mix: $3 \div \frac{1}{8} = 3 \times 8 = 24$

24 bags of nut mix.

Cherries: $5 \div \frac{1}{4} = 5 \times 4 = 20$

20 bags of cherries.

Dried fruit: $4 \div \frac{1}{6} = 4 \times 6 = 24$

24 bags of dried fruit.