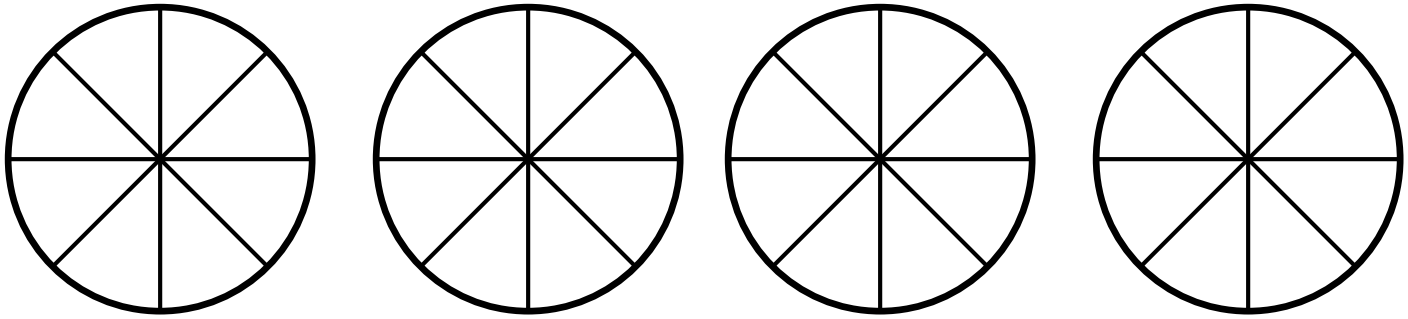
Do-Now

The Seahawks are celebrating the end of a successful Fall sports season. The team moms have ordered 4 circular chocolate chip cookie cakes decorated with the team mascot for the celebration.

Each person will receive a slice that is $\frac{1}{8}$ of a cookie cake. The Moms ordered enough to feed the teams and family members that attended. For how many people did the team moms order cookie cake?

Seahawk Celebration

We started with 4 cookie cakes.
We wanted to know how many people we could serve.



If each person received $\frac{1}{8}$ of a cookie cake, how many people could be served?

Asked another way: How many $\frac{1}{8}$ths are in 4 wholes?

Seahawk Celebration

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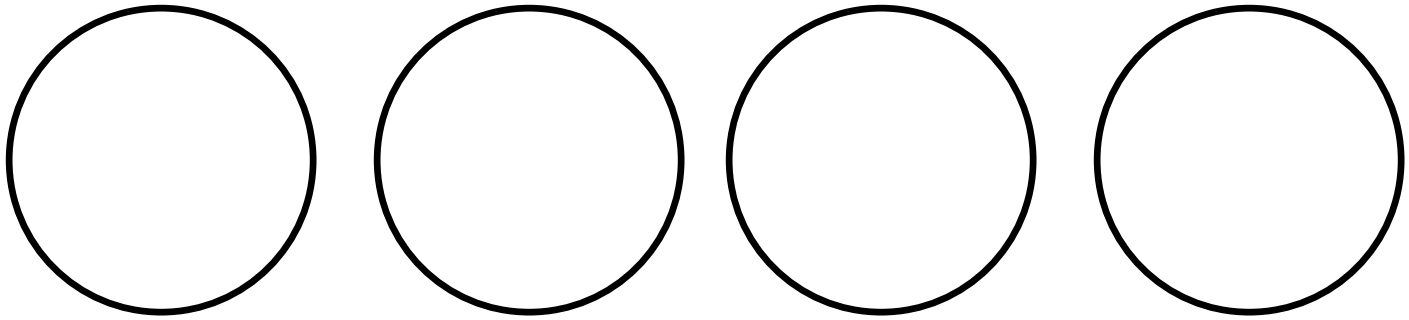
We wanted to know how many people we could serve.

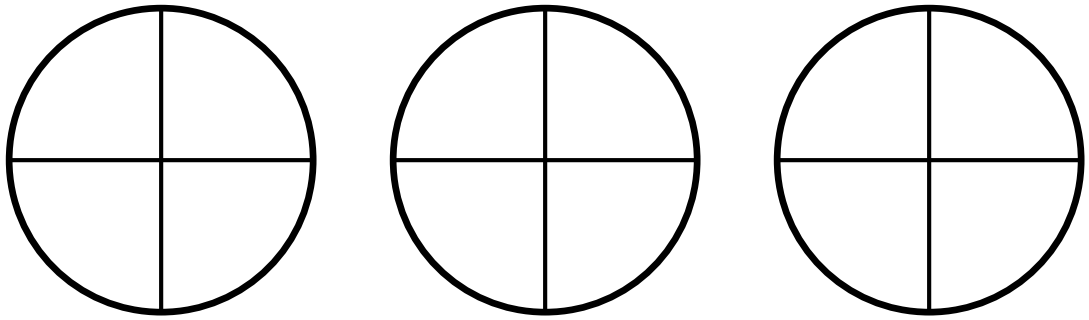


Imagine each person received 2 whole cookie cakes.
How many people could be served?

Asked another way: How many 2s are in 4 wholes?

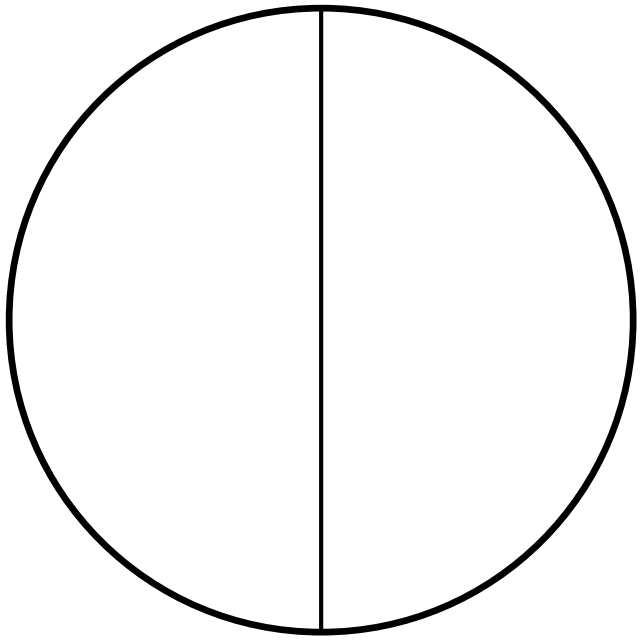
Seahawk Celebration

Let's model this division expression: $3 \div \frac{3}{4}$



Seahawk Celebration

If there was half of one large cookie cake remaining, and 4 friends wanted to split it, how much cookie cake would each person get?



NOTES

The Definition of Division: Dividing is the same as

multiplying by the reciprocal.

Example: $4 \div \frac{1}{8}$

The Definition of Division: Dividing is the same as

multiplying by the reciprocal.

Example: $\frac{9}{16} \div 3$

Reciprocal: Two numbers with a product of 1.

Example: $\frac{2}{3}$ and $\frac{3}{2}$ are reciprocals. $\frac{1}{8}$ and 8 are reciprocals.

What is the reciprocal of:

$\frac{3}{8}$

$\frac{16}{7}$

4

$\frac{1}{9}$

Find:

$$\frac{2}{3}, \frac{5}{6}$$

Find:

$$\frac{7}{8}, \frac{1}{4}$$

Find:

$$\frac{5}{8}, \frac{3}{4}$$

Find:

$$14 \, , \, \frac{7}{10}$$

You have a space of $9\frac{1}{2}$ inches on a poster for a row of photos. Each photo is $2\frac{3}{4}$ inches wide.

How many photos can you fit?

Find:

$$5\frac{3}{4}, \; 3\frac{2}{3}$$

Find:

$$3\frac{9}{16}, \ 3$$

How many $1\frac{1}{2}$ ounce servings of cereal are in the larger box shown below?