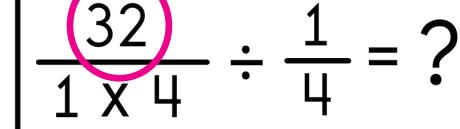
Circle the Difference: What Happened in the Equation?

$$\frac{8 \times 4}{1 \times 4} \div \frac{1}{4} = ?$$





Hello Teachers,

Thank you for downloading this handout. After decades of teaching, now I am sharing some of the activities I designed for my students and some new ones as well.

Please, check out the self-paced teacher education courses on UnCommon-Core.com.

While you are there, sign up for your free copy of Colorful Collections: *A Mindful Exploration of Proper Fractions*.

Also, visit my Teachers Pay Teachers store UnCommon-Core dot com.



Thank you again. All the best,

Isabelle

Isabelle Hoag M.Ed.
Director of Education
UnCommon-Core.com

This activity is a unique way to help your students make sense of dividing by fractions.

All they have to do is compare an equation with the one above, circle the difference, and then explain what happened between the steps.

Students get

- An up close view of solving division problems with fractions
- · A low risk format in which to make sense of dividing by fractions
- · A chance to write about math and
- · Connect number properties with their role in solving equations.

The last worksheet is blank so you or your students can create more **Circle the Difference** games.

Enjoy!

Isabelle

Isabelle@UnCommon-Core.com



name:

State the question. Circle the change in the next equation. Explain what happened.

 $2 \div \frac{1}{3} = ?$

$$\frac{2}{1} \div \frac{1}{3} = ?$$

$$\frac{2\times3}{1\times3} \div \frac{1}{3} = ?$$

$$\frac{6}{1 \times 3} \div \frac{1}{3} = ?$$

$$\frac{6}{3} \div \frac{1}{3} = ?$$

$$\frac{6 \div 1}{3 \div 3} = ?$$

$$\frac{6}{3 \div 3} = ?$$

$$\frac{6}{1}$$
 = ?

$$\frac{6}{1}$$
 = 6

name:

State the question. Circle the change in the next equation. Explain what happened.

 $5 \div \frac{1}{2} = ?$

$$\frac{5}{1} \div \frac{1}{2} = ?$$

$$\frac{5\times2}{1\times2}\div\frac{1}{2}=?$$

3

$$\boxed{\frac{10}{1 \times 2} \div \frac{1}{2} = ?}$$

4

$$\frac{10}{2} \div \frac{1}{2} = ?$$

5

$$\frac{10 \div 1}{2 \div 2} = ?$$

$$\frac{10}{2 \div 2} = ?$$

7

$$\frac{10}{1}$$
 = ?

$$\frac{10}{1} = 10$$

name:

State the question. Circle the change in the next equation. Explain what happened.

 $8 \div \frac{1}{4} = 3$

$$\frac{8}{1} \div \frac{1}{4} = ?$$

$$\frac{8\times4}{1\times4}\div\frac{1}{4}=?$$

$$\frac{32}{1 \times 4} \div \frac{1}{4} = ?$$

$$\frac{32}{4} \div \frac{1}{4} = ?$$

$$\frac{32 \div 1}{4 \div 4} = ?$$

$$\frac{32}{4 \div 4} = ?$$

$$\frac{32}{1}$$
 = ?

$$\frac{32}{1}$$
 = 32

name:

State the question. Circle the change in the next equation. Explain what happened.

 $1 \div \frac{1}{5} = ?$

 $\frac{1}{1} \div \frac{1}{5} = ?$

 $\frac{1\times5}{1\times5} \div \frac{1}{5} = ?$

3

 $\frac{1 \times 5}{5} \div \frac{1}{5} = ?$

4

 $\frac{5}{5} \div \frac{1}{5} = ?$

5

 $\frac{5 \div 1}{5 \div 5} = ?$

6

 $\frac{5}{5 \div 5} = ?$

7

 $\frac{5}{1}$ = ?

8

 $\frac{5}{1} = 5$

name:

State the question. Circle the change in the next equation. Explain what happened.

 $0 \div \frac{1}{9} = ?$

 $\frac{0}{1} \div \frac{1}{9} = ?$

 $\frac{0\times9}{1\times9}\div\frac{1}{9}=?$

3

 $\frac{0 \times 9}{9} \div \frac{1}{9} = ?$

4

5

7

 $\frac{0}{9} \div \frac{1}{9} = ?$

 $\frac{0 \div 1}{9 \div 9} = ?$

 $\frac{0 \div 1}{1} = ?$

 $\frac{0}{1} = ?$

 $\frac{0}{1} = 0$

name:

State the question. Circle the change in the next equation. Explain what happened.

 $3 \div \frac{1}{6} = ?$

 $\frac{3}{1} \div \frac{1}{6} = ?$

 $\frac{3 \times 6}{1 \times 6} \div \frac{1}{6} = ?$

3

 $\frac{3 \times 6}{6} \div \frac{1}{6} = ?$

4

 $\frac{18}{6} \div \frac{1}{6} = ?$

5

 $\frac{18 \div 1}{6 \div 6} = ?$

0

 $\frac{18 \div 1}{1} = ?$

7

 $\frac{18}{1}$ = ?

8

 $\frac{18}{1} = 18$

name:

State the question. Circle the change in the next equation. Explain what happened.

 $4 \div \frac{1}{10} = ?$

 $\frac{4}{1} \div \frac{1}{10} = ?$

 $\frac{4 \times 10}{1 \times 10} \div \frac{1}{10} = ?$

3

 $\frac{4 \times 10}{10} \div \frac{1}{10} = ?$

4

5

7

 $\frac{40}{10} \div \frac{1}{10} = ?$

 $\frac{40 \div 1}{10 \div 10} = ?$

 $\frac{40 \div 1}{1} = ?$

 $\frac{40}{1} = ?$

 $\frac{40}{1} = 40$

name:

State the question. Circle the change in the next equation. Explain what happened.

 $6 \div \frac{1}{3} = ?$

 $\frac{6}{1} \div \frac{1}{3} = ?$

 $\frac{6 \times 3}{1 \times 3} \div \frac{1}{3} = ?$

3

 $\frac{6\times3}{3}\div\frac{1}{3}=?$

4

5

7

 $\frac{18}{3} \div \frac{1}{3} = ?$

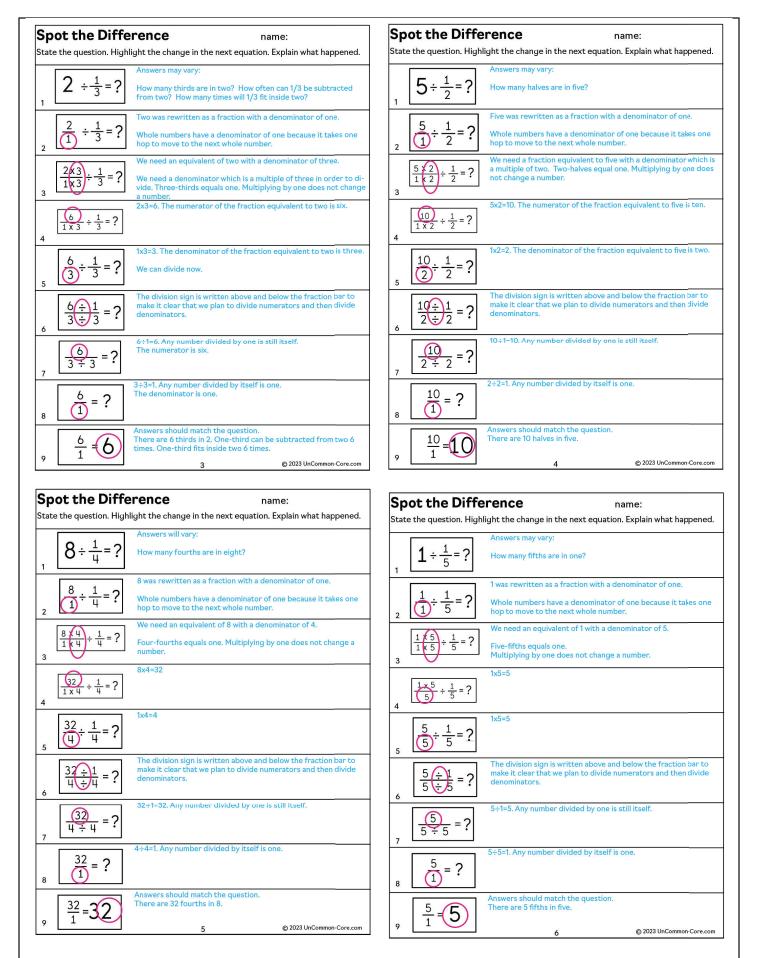
 $\frac{18 \div 1}{3 \div 3} = ?$

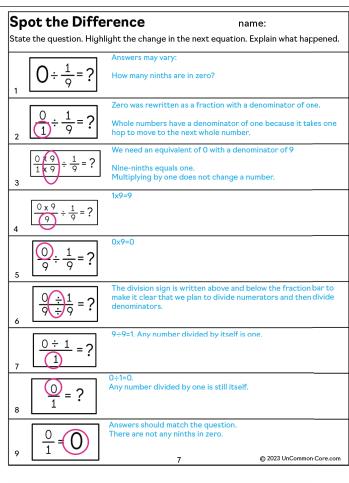
 $\frac{18 \div 1}{1} = ?$

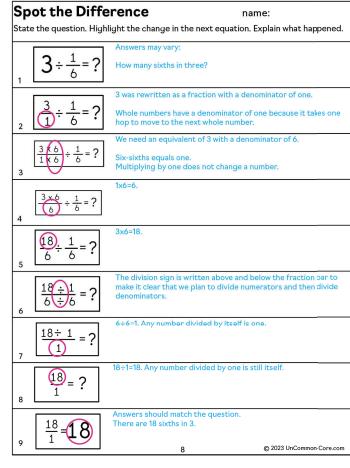
 $\frac{18}{1} = ?$

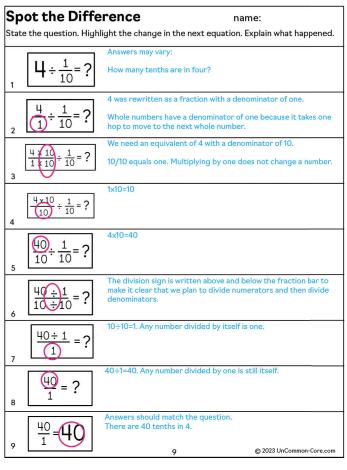
 $\frac{18}{9} = 18$

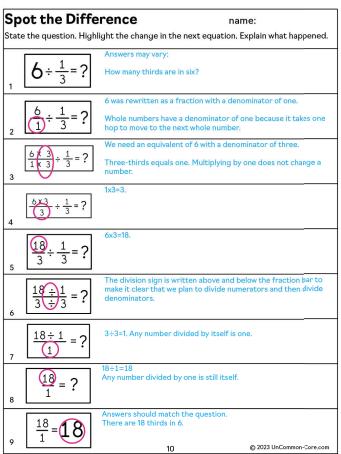
| Cir | cle the Differ | ence | name: | |
|-------|----------------------------|-------------------------|---------------------------------|-------|
| State | e the question. Circle the | e change in the next ed | quation. Explain what happened. | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
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Thank you!

Isabelle@UnCommon-Core.com