Warm-Up

Sept 29

Using the numbers below and math operation, try to reach the given target!

Numbers: 3, 7, 2, 8, 5
Target: 24

RULES

- You can only use each number once.
- You can use any of the four operations (+, -, ×, ÷).
- They must get exactly 24.

$8 \times 3 - 7 + 5 + 2$

$24 - 7 + 5 + 2$

$17 + 5 + 2$

24

FRACTIONS

- **Fraction**: A number that represents a part of a whole, written in the form a/b where *a* is the numerator and *b* is the denominator.

- **Mixed Number**: A whole number combined with a fraction
  - e.g., 3 1/2 ex. $3\frac{1}{2}$

- **Improper Fraction**: A fraction where the numerator is greater than or equal to the denominator, e.g., 7/4 = 4.

- **Simplifying**: Reducing a fraction to its simplest form.

- **Greatest Common Factor (GCF)**: The largest number that divides both the numerator and the denominator.

Simplifying Proper Fractions

1.Steps to Simplify a Fraction:

- > Find the greatest common factor of the numerator and denominator.
- > Divide both the numerator and denominator by the greatest common factor.

Simplify $\frac{12}{16} \overset{\div 4}{\underset{\div 4}{}} = \frac{3}{4}$ ✓

Greatest common factor =

12

6 x 2

1 x 12

4 x 3

16

1 x 16

8 x 2

4 x 4

Practice Simplify the following fractions:

1) $\frac{18}{24} \div 6 = \frac{3}{4}$

2) $\frac{8}{12} \div 4 = \frac{2}{3}$

3) $\frac{15}{20} \div 5 = \frac{3}{4}$

GCF

18
3 x 6
2 x 9
1 x 18

24
1 x 24
6 x 4
2 x 12
8 x 3

8
1 x 8
2 x 4

12
1 x 12
2 x 6
3 x 4

15
1 x 15
3 x 5

20
1 x 20
2 x 10
4 x 5

Simplify

a) $\frac{50}{100} \overset{\div 50}{\underset{\div 50}{=}} \frac{1}{2}$

50
1 x 50
2 x 25
5 x 10

100
1 x 100
2 x 50
4 x 25
5 x 20
10 x 10

b) $\frac{4}{36} \overset{\div 4}{\underset{\div 4}{=}} \frac{1}{9}$

4
1 x 4
2 x 2

36
1 x 36
6 x 6
2 x 18
4 x 9

c) $\frac{12}{20} \overset{\div 4}{\underset{\div 4}{=}} \frac{3}{5}$

12
1 x 12
2 x 6
3 x 4

20
1 x 20
2 x 10
4 x 5

https://youtu.be/2zuRQmwaREY?si=ERR6HMRDF6NSCidL

Homework