Copilot prompt

• Create a powerpoint presentation explaining fractions. Include percents, mixed fractions, improper fractions. Include examples of comparisons, addition, subtraction, multiplication, and division. Include at least 2 application problems as well.

Slide 1: Title Slide

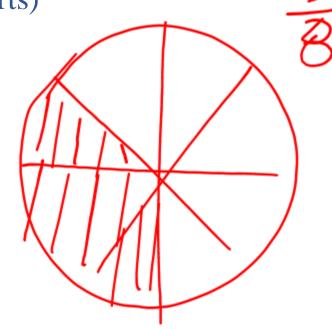
• **Title:** Understanding Fractions **Subtitle:** A comprehensive guide to fractions, percents, mixed numbers, and more

Slide 2: What Are Fractions?

• Content:

- Definition of a fraction
- Key terms: numerator and denominator
- Visual example (e.g., a pizza sliced into parts)

1-> numerator
7 > Lenominator



Slide 3: Percents and Fractions

- Definition of percents (fractions out of 100)
- Examples of converting fractions to perdents and vice versa

• Quick example:
$$\frac{3}{4} = 75\%$$

$$\frac{75}{100} = \frac{3\times25}{4\times25} = \frac{75}{100} = \frac{75}{75}$$

Slide 4: Mixed Fractions and Improper Fractions

- Definition of mixed fractions and improper fractions
- How to convert between the two
- Examples: • Mixed: $2\frac{1}{3}$ \longrightarrow $3\times2+1=\frac{7}{3}$

Slide 5: Comparing Fractions

- How to compare fractions (common denominators or cross-multiplication)
- Example: Compare $\frac{2}{5} < = > \frac{3}{7}$

Same len
$$7x = 14$$
 $3x = 15$
Compare num $7x = 14$ $7x = 15$
 $15 = 35$

Slide 6: Adding Fractions

- Steps for addition:
 - Find a common denominator
 - Add numerators
 - Simplify the result

• Example:
$$\frac{1}{4} + \frac{3}{8}$$

$$\frac{1}{4} \times \frac{2}{8} = \frac{2}{8}$$

$$\frac{2+3}{8} = \frac{2+3}{8} = \frac{5}{8}$$

Slide 7: Subtracting Fractions

- Steps for subtraction (similar to addition)
- Example: $\frac{5}{6} \frac{1}{2}$

$$\frac{5}{6} - \frac{3}{6} = \frac{5}{6} = \frac{3}{6}$$

Slide 8: Multiplying Fractions

- Multiplication rule: Multiply numerators and denominators
- Simplify the fraction
- Example: $\frac{2}{3} \times \frac{4}{5}$

$$\frac{2}{5}x\frac{4}{5} = \frac{2x4}{3x5} = \frac{8}{15}$$

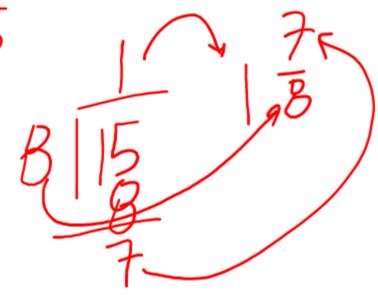
Slide 9: Dividing Fractions

• Content:

• Division rule: Multiply by the reciprocal

• Example:
$$\frac{3}{4} \div \frac{2}{5} = \frac{3}{4} \times \frac{5}{5} = \frac{15}{3}$$

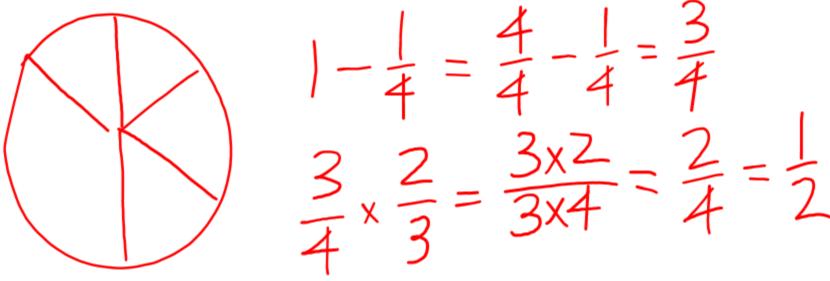
numerator and denominator



Slide 10: Application Problem #1 multiply

• **Problem:** Sarah has $\frac{2}{3}$ of a cake left. She shares $\frac{1}{4}$ of it with her friend. How much cake does Sarah have now?

Solution: Step-by-step explanation with visual aid



Slide 11: Application Problem #2

• **Problem:** A recipe calls for $1\frac{1}{2}$ cups of sugar, but you only want to make half the recipe. How much sugar do you need? **Solution:** Step-by-step explanation with visual aid

Solution: Step-by-step explanation with visual at
$$\frac{1}{2} = \frac{3}{2} \times \frac{1}{2} = \frac{3}{4} = \frac{3}$$

Slide 12: Conclusion

- Recap key points
- Importance of fractions in daily life
- Encourage practice with more problems

• Which is bigger?

1.
$$\frac{3}{4}$$
 or $\frac{5}{8}$

2.
$$\frac{3}{4}$$
 or 75%

3.
$$\frac{3}{4}$$
 or $\frac{5}{8}$

Which is bigger?

4.
$$\frac{12}{32}$$
 or $\frac{5}{16}$

5.
$$\frac{35}{7}$$
 or $\frac{45}{9}$

6. 67.5% or
$$\frac{5}{7}$$

7.
$$\frac{3}{4} + \frac{5}{8} =$$

$$8. \frac{3}{23} + \frac{5}{46} =$$

9.
$$\frac{3}{2} - \frac{7}{8} =$$

10.
$$\frac{4}{5} - \frac{5}{7} =$$

11.
$$\frac{73}{100} - \frac{13}{25} =$$

12.
$$\frac{3}{4} \times \frac{5}{8} =$$

13.
$$\frac{5}{11} \times \frac{5}{8} =$$

14.
$$\frac{\frac{3}{4}}{\frac{5}{8}} =$$

15.
$$\frac{4}{9} + \frac{1}{6} =$$

16.
$$\frac{12}{77} + \frac{5}{33} =$$

17.
$$\frac{1}{4} - \frac{3}{16} =$$

Compute

 $\frac{68}{100} = 0.62$ $\frac{100}{100} = 426.18$

19. $35\% \ off \$120.00 =$

100-35=65 $65\% \text{ of } 120=0.65\times 120=78

20.
$$\frac{13}{16} \times \frac{5}{2} =$$

21.
$$\frac{15}{16} \times \frac{3}{5} =$$

22.
$$\frac{\frac{4}{5}}{\frac{7}{16}} =$$