



Comparing and Ordering Fractions

FREE Worksheet - 2

Time: 20 minutes

(Detailed solutions at the end)

1. Study the following figure. Is the shaded fraction greater than $\frac{1}{2}$?



Answer: _____

2. Nelson, Chaya and Eileen each had a similar pizza.

Nelson ate $\frac{1}{4}$ of his pizza.

Chaya ate $\frac{5}{8}$ of her pizza.

Eileen ate $\frac{1}{3}$ of her pizza.

Is the following statement true or false?

Nelson ate a smaller portion than Chaya.

Answer: _____



3. Fill in the blank: (greater than, less than or equal to)

$$\frac{1}{5} \text{ is } \underline{\hspace{2cm}} \frac{1}{6}$$

4. Fill in the blank: (greater than, less than or equal to)

$$\frac{2}{7} \text{ is } \underline{\hspace{2cm}} \frac{5}{7}$$

5. Which is smaller: $\frac{1}{3}$ or $\frac{2}{3}$?

Answer: _____

6. Arrange the following fractions in order, beginning with the smallest.

$$\frac{1}{2}, \frac{1}{4}, \frac{1}{3}$$

Answer: _____



7. Which is greater: $\frac{2}{6}$ or $\frac{1}{10}$?

Answer: _____

8. Mrs. Patel had 2 ribbons of the same length.

She cuts $\frac{2}{5}$ of one of the ribbons for Jon and

$\frac{3}{5}$ of the other ribbon for Maria.

Who got the bigger piece?

Answer: _____



SOLUTIONS

Problem 1

The shaded portion of the figure represents the fraction $\frac{5}{8}$

To compare the fractions, we must first list the equivalent fractions o

of $\frac{1}{2}$

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

$\frac{5}{8}$ is greater than $\frac{4}{8}$.

So, the statement is **True**.

Problem 2

To compare the two fractions, we must first express the fractions using a common denominator.

Nelson: $\frac{1}{4} = \frac{2}{8}$

Adeline: $\frac{5}{8}$

$\frac{2}{8}$ is greater than $\frac{5}{8}$



So, the statement, Nelson ate a smaller portion than Chaya, is **True**.

Problem 3

To compare the fractions, we must first express them using a common denominator.

Fraction 1:

$$\frac{1}{5} = \frac{2}{10} = \frac{3}{15} = \frac{4}{20} = \frac{5}{25} = \frac{5}{30}$$

Fraction 2:

$$\frac{1}{6} = \frac{2}{12} = \frac{3}{18} = \frac{4}{24} = \frac{5}{30}$$

_____ $\frac{6}{30}$ is greater than $\frac{5}{30}$

So, $\frac{1}{5}$ is **greater than** $\frac{1}{6}$

Problem 4

Fraction 1:

$$\frac{2}{7}$$

Fraction 2:



$$\frac{5}{7}$$

$\frac{2}{7}$ is *less than* $\frac{5}{7}$

Problem 5

The fractions $\frac{1}{3}$ and $\frac{2}{3}$ have a common denominator.

The smaller fraction is the one with the smaller numerator.

So, $\frac{1}{3}$ is the smaller fraction.

Problem 6

To compare the two fractions, we must first express them using a common denominator.

Fraction 1:

$$\frac{1}{2} = \frac{6}{12}$$

Fraction 2:

$$\frac{1}{4} = \frac{3}{12}$$

Fraction 3:



$$\frac{1}{3} = \frac{4}{12}$$

The fraction with the smallest numerator is the smallest fraction while the fraction with the biggest numerator is the biggest fraction.

So, beginning with the smallest, the fractions should be arranged in the following order:

$$\frac{1}{4}, \frac{1}{3}, \frac{1}{2}$$

Problem 7

To compare the two fractions, we must first express the fractions using a common denominator.

Fraction 1:

$$\frac{2}{6} = \frac{4}{12} = \frac{6}{18} = \frac{8}{24} = \frac{10}{30}$$

Fraction 2:

$$\frac{1}{10} = \frac{2}{20} = \frac{3}{30}$$

$\frac{10}{30}$ is greater than $\frac{3}{30}$.

So, $\frac{2}{6}$ is greater than $\frac{1}{10}$.



Problem 8

$\frac{3}{5}$ is greater than $\frac{2}{5}$

So, Maria got the bigger piece.