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COMPARING FRACTIONS

Comparing Fractions

Sometimes we need to compare two fractions to discover which is larger or smaller.

There are two main ways to compare fractions: using **decimals**, or using the **same denominator**.

The Decimal Method of Comparing Fractions

Convert each fraction to decimals, and then compare the decimals.

Example: Which is bigger: 3/8 or 5/12?

3/8 = 0.375 and 5/12 = 0.4166

So 5/12 is bigger.

Comparing Fractions

The Same denominator method

*The **denominator** is the bottom number in a fraction.It shows how many equal parts the item is divided into*

Which is bigger 4/9 or 5/9?

When two fractions have the **same denominator** they are easy to compare:

4/9

5/9

Question: 01

By how much does 7/(8/9) exceeds (7/8)/9?

A. 2 5/8
B. 3 1/9
C. 7 7/9
D. 9 1/7

Answer: C

Question: 02

Which of the following fraction is smallest?

A. 23/28
B. 14/15
C. 15/19
D. 21/24

Answer: C

Question: 03

0.363*0.522+0.363*0.478 = ?

A. 0.522
B. 0.845
C. 0.363
D. 0.985

Answer: C

Question: 04

The value of $\frac{34.31*0.473*1.567}{0.0673*23.25*7.57}$ is close to

A. 2.0
B. 1.15
C. 2.05
D. 2.15

Answer: D

Question: 05

If $5.51*10^{k} = 0.0551$, then the value of k is:

A. –4
B. –3
C. –2
D. –1

Answer: C

Question: 06

The value of $\frac{(2.502+0.064)^2 - (2.502-0.064)^2}{2.502*0.064}$

A. 4
B. 235
C. 25
D. 3

Answer: A

Question: 07

The value of $\frac{4.5*1.8+4.5*8.2}{1.5*4.5+1.5*5.5}$

A. 10
B. 8
C. 5
D. 3

Answer: D

Question: 08

The value of $\dfrac{(.02)^2 + (0.52)^2 + (0.035)^2}{(0.002)^2 + (0.052)^2 + (0.0035)^2}$

A. 100
B. 1000
C. 001
D. 0001

Answer: A

Question: 09

Compare 3/5 and 4/7

A. 3/5 > 4/7
B. 3/5 < 4/7
C. 3/5 = 4/7
D. None of these

Answer: A

Question: 10

Which of the following fraction is arranged in ascending order of their value?

A. 1/4, 2/7, 3/4, 4/7, 5/7, 6/5
B. 1/4, 2/7, 4/7, 5/7, 3/4, 6/5
C. 2/7, 1/4, 4/7, 3/4, 5/7, 6/5
D. 2/7, 1/4, 4/7, 5/7, 3/4, 6/5

Answer: B

Question: 11

Which of the following fraction is greater than 4/5 and less than 6/7?

A. 2/3
B. 3/4
C. 5/6
D. 10/11

Answer: C

Question: 12

The denominator of a fraction exceeds its numerator by 7. If the numerator as well as the denominator is increased by 9, the fraction becomes 2/3. Which of the following is the original fraction?

A. 5/12
B. 4/11
C. 6/13
D. none of these

Answer: A

Question: 13

The sum of the numerator and denominator of a fraction is 13. If we add 3 and 9 to numerator and denominator respectively, it becomes 2/3. The fraction is:

A. 5/8
B. 6/7
C. 7/6
D. 8/5

Answer: C

Question: 14

There are two fractions such that fraction X is thrice the fraction Y and their product is 25/12. Which of the following is equal to Y?

A. 5/6
B. 4/5
C. 3/4
D. 7/9

Answer: A

Question: 15

By how much is four-seventh of 560 greater than five-eighth of 400?

A. 210
B. 70
C. 90
D. 110

Answer: B