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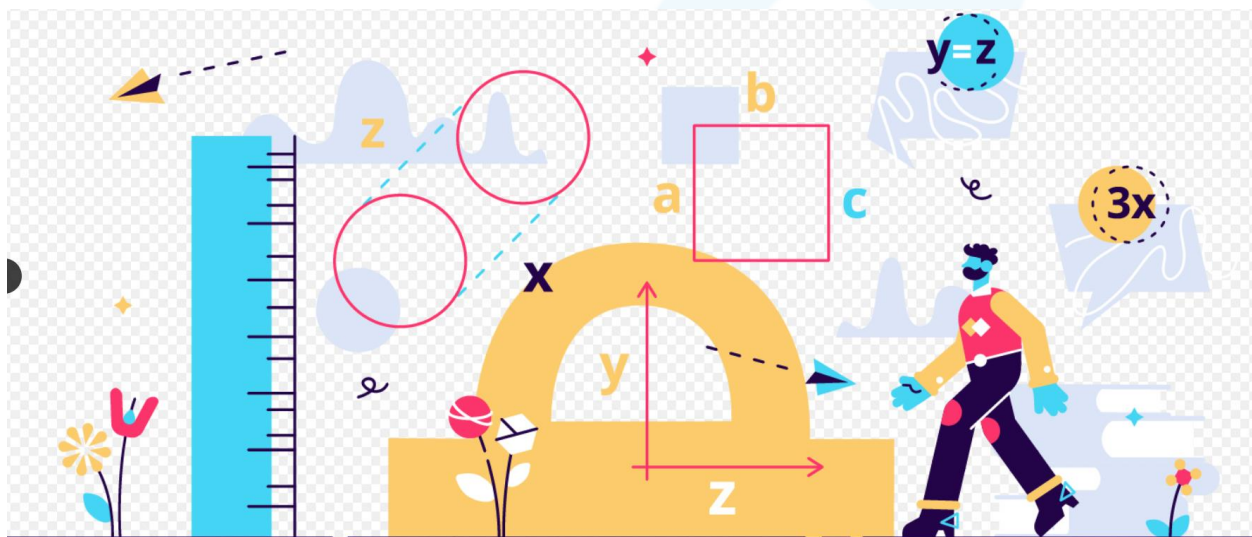
Adding Fractions With Unlike Denominators Worksheet

Add the following fractions.

1. $\frac{1}{x} + 5$

2. $\frac{x}{2} + 3$

3. $\frac{2}{x} + \frac{5}{3x}$



4. $\frac{x}{3} + \frac{x}{4}$

5. $\frac{2x}{5} + \frac{3}{x}$

6. $\frac{1}{x} + \frac{1}{(x + 1)}$

7. $\frac{1}{(x - 1)} + \frac{2}{(x + 1)}$

8. $\frac{3}{(x + 1)} + \frac{2}{(x - 1)} + \frac{5}{(x - 1)^2}$

$$9. \quad 9/(x + 7) + 11/(x - 4)$$

$$10. \quad 5/(x + 2) + 8/(x + 5)$$



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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

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**ANSWERS**

1)	$(5x + 1) / x$
2)	$(x + 6) / 2$
3)	$11 / 3x$
4)	$7x / 12$
5)	$(2x^2 + 15) / 5x$
6)	$(2x + 1) / \{x(x + 1)\}$

7)	$(3x - 1) / (x^2 - 1)$
8)	$(5x^2 - x + 6) / \{(x + 1)(x - 1)^2\}$
9)	$(20x + 31) / (x^2 + 3x - 28)$
10)	$(13x + 41) / (x^2 + 7x + 10)$

FUN FACT

1. We can find the lcm of the denominator numbers of unlike fractions, to convert them to like fractions.
2. Unlike fractions can be manipulated only after making the denominators of all the fractions as equal.
3. Unlike fractions can be converted to a like fraction by multiplying the fraction with a suitable number.

