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## Rational Expressions Worksheets

**For Questions (1-2), simplify the given expressions to its lowest form:**

1)  $\frac{2(3q-8)}{12q-16}$

2)  $\frac{l^2 + 2l + 24}{l^2 + l + 20}$

**For Questions (3-10), evaluate and then simplify the given expressions:**

3)  $\frac{p-3}{p^2+p-6} + 9$

4)  $\frac{6t}{2} - \frac{4t+5}{t+2}$

5)  $-\frac{7y-4}{2y-9} - \frac{3y}{4}$

6)  $\frac{2}{n+2} - \frac{3}{2n}$

7)  $\frac{6r^2-19r+3}{r^2-9}$

8)  $\frac{m^2-4n^2}{2mn-4n^2}$

$$9) \frac{q^2 + 1}{q^2 - q - 6}$$

$$10) \frac{3(n-5)(n-7)(n+1)}{7(5-n)(1+n)(7-n)}$$



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in an interesting way,  
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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."

- Barbara Cabrera

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**ANSWERS**

1)	28, 29, 30, 31, 32, 33
2)	$b^4$
3)	530, 619, 598, 690
4) (A) (B)	256 441
5)(A) (B)	25 81
6)	11.3

7)	$\sqrt[4]{m}$ and $m^{\frac{1}{4}}$
8)	10 years
9)	4107
10)	32

## FUN FACT

1. A perfect square is a number which is obtained by multiplying identical integers.
2. We find the square root of a perfect square to find those identical integers.
3. We use the prime factorization method to find the prime factors of a perfect square.

