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## Simplifying Rational Expression Worksheet

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

$$1) \frac{54j^3}{63j^4}$$

$$2) \frac{c^2 - 9}{3c - 9}$$

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

$$3) \frac{22(y+5)}{5} = \frac{4y}{22(y+5)}$$

$$4) \frac{t^2 + 13t + 40}{t + 5} = \frac{t + 8}{10}$$

$$5) \frac{1}{(x-5)} = \frac{(8x-64)}{(x-5)}$$

$$6) \frac{35a^2 + 49a}{40a^2 + 60a} = \frac{1}{2}$$

$$7) \frac{2n^2 + 5n - 3}{12n^2 + 36n}$$

$$8) \frac{4r^3}{r^2 + 5r} \times \frac{r^2 + 2r - 15}{r^3 - 9r}$$

$$9) \frac{2(s-5)}{3s(2s-1)}$$

$$10) \frac{z^2-1}{1-z^2}$$



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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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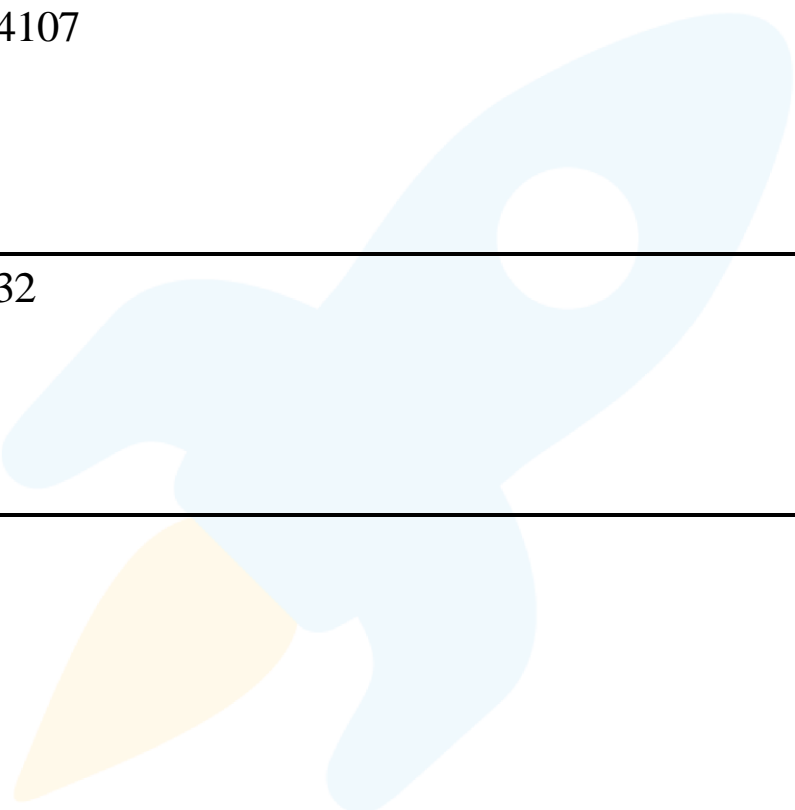
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ANSWERS



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.

