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Simplifying Rational Expression Worksheet

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

1) $\frac{25r - 5}{5r - 1}$

2) $\frac{36d^3}{48d^2}$

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

3) $\frac{2p + 4}{p^2 + 5p + 6}$

4) $\frac{2z^2 - 3z^2}{z}$

5) $\frac{s + 3}{s^2 + 4s + 3}$

6) $\frac{12}{3y - 12}$

7) $\frac{k^2 - 5k + 6}{k - 3}$

8) $\frac{15s}{5 - 10s}$

$$9) \frac{3t^3 + 48t}{2t^2 + 8t}$$

$$10) \frac{a^2 - 9a + 20}{2a^2 - 13a + 15}$$



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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

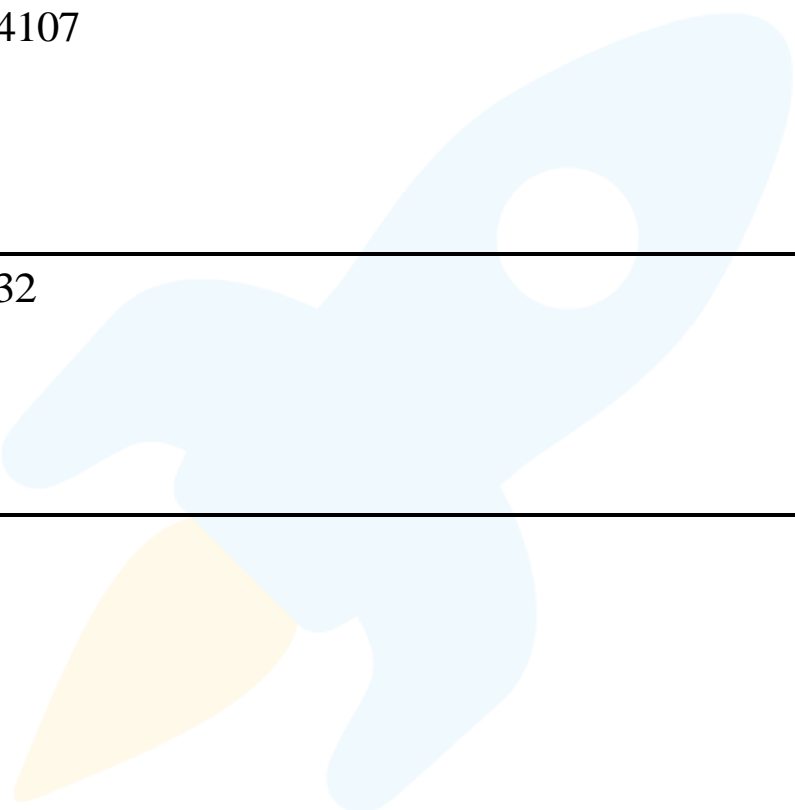
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**ANSWERS**

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.

