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Simplifying Rational Expression Worksheet

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

1) $\frac{n-8}{2n-16}$

2) $\frac{t^2-8t+15}{t-5}$

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

3) $\frac{x^2+3x+10}{x-5}$

4) $\frac{n^2-36}{n^2-8n+12}$

5) $\frac{m^2-1}{m^3-1}$

6) $\frac{3t^2+5t+2}{2t^2+3t+1}$

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

8) $\frac{r-7}{r-14}$

$$9) \frac{p-4}{p^2-16}$$

$$10) \frac{2t+4}{t+2}$$



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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

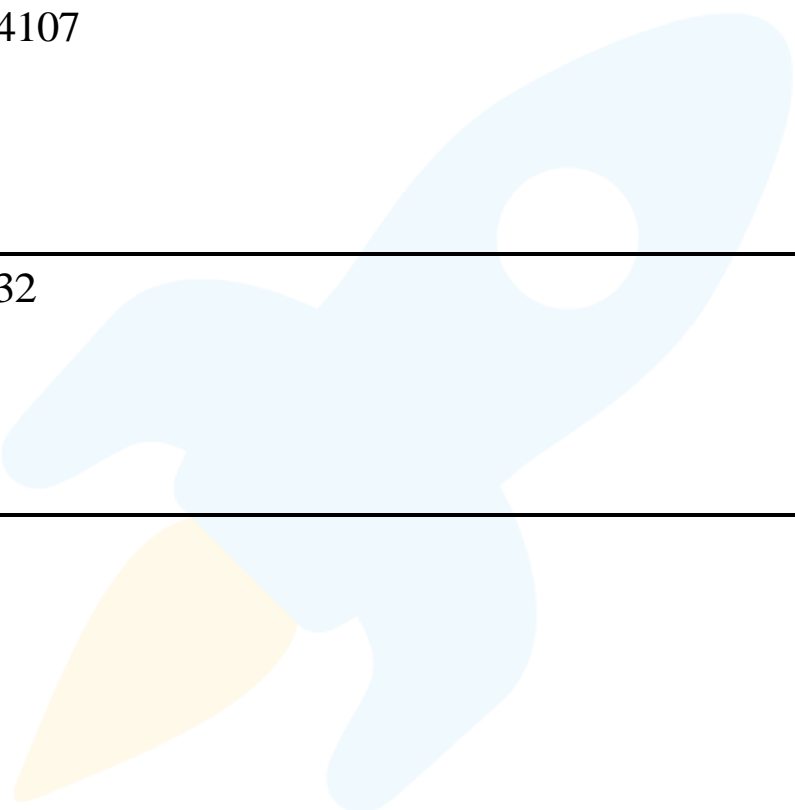
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**ANSWERS**

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.

