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

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

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

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

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When you learn math in an interesting way, you never forget.

25 Million
Math classes & counting

100K+
Students learning Math the right way

20+ Countries
Present across USA, UK, Singapore, India, UAE & more.

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.