

Rewrite an expression as the largest perfect square \*leftover:

1.  $32x = \frac{\quad}{\text{perfect square}} * \frac{\quad}{\text{leftover}}$

2.  $72x^3y^4 = \frac{\quad}{\text{perfect square}} * \frac{\quad}{\text{leftover}}$

3.  $40x^3y^8z^9 = \frac{\quad}{\text{perfect square}} * \frac{\quad}{\text{leftover}}$

Rewrite an expression as the largest perfect cube \*leftover:

1.  $48x = \frac{\quad}{\text{perfect cube}} * \frac{\quad}{\text{leftover}}$

2.  $56x^7 = \frac{\quad}{\text{perfect cube}} * \frac{\quad}{\text{leftover}}$

3.  $-72x^7y^6z^5 = \frac{\quad}{\text{perfect cube}} * \frac{\quad}{\text{leftover}}$

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Rewrite the express as a perfect square \*leftover:

1.  $75x = \frac{\quad}{\text{perfect square}} * \frac{\quad}{\text{leftover}}$

2.  $48x^3 = \frac{\quad}{\text{perfect square}} * \frac{\quad}{\text{leftover}}$

3.  $64x^7y^{15}z^2 = \frac{\quad}{\text{perfect square}} * \frac{\quad}{\text{leftover}}$

4.  $18x^5y^9z^7 = \frac{\quad}{\text{perfect square}} * \frac{\quad}{\text{leftover}}$

Rewrite the express as a perfect cube \*leftover:

1.  $16x = \frac{\quad}{\text{perfect cube}} * \frac{\quad}{\text{leftover}}$

2.  $250x^4 = \frac{\quad}{\text{perfect cube}} * \frac{\quad}{\text{leftover}}$

3.  $81x^8y^5 = \frac{\quad}{\text{perfect cube}} * \frac{\quad}{\text{leftover}}$

4.  $-32x^6y^5z^7 = \frac{\quad}{\text{perfect cube}} * \frac{\quad}{\text{leftover}}$

Rewrite an expression as the largest perfect square \*leftover:

1.  $32x = \frac{16}{\text{perfect square}} * \frac{2x}{\text{leftover}}$

$2 \overline{)32}$   
 $16 \leftarrow \text{square}$

2.  $72x^3y^4 = \frac{36x^2y^4}{\text{perfect square}} * \frac{2x}{\text{leftover}}$

$2 \overline{)72}$   
 $36$

3.  $40x^3y^8z^9 = \frac{4x^2y^8z^8}{\text{perfect square}} * \frac{10xz}{\text{leftover}}$

$4 \left( \begin{array}{r} 2 \overline{)40} \\ 2 \overline{)20} \\ 10 \end{array} \right)$

Rewrite an expression as the largest perfect cube \*leftover:

1.  $48x = \frac{8}{\text{perfect cube}} * \frac{6x}{\text{leftover}}$

$8 \left( \begin{array}{r} 2 \overline{)48} \\ 2 \overline{)24} \\ 2 \overline{)12} \\ 6 \end{array} \right)$

2.  $56x^7 = \frac{8x^6}{\text{perfect cube}} * \frac{7x}{\text{leftover}}$

$8 \left( \begin{array}{r} 2 \overline{)56} \\ 2 \overline{)28} \\ 2 \overline{)14} \\ 7 \end{array} \right)$

3.  $-72x^7y^6z^5 = \frac{-8x^6y^6z^3}{\text{perfect cube}} * \frac{9xz^2}{\text{leftover}}$

$8 \left( \begin{array}{r} 2 \overline{)72} \\ 2 \overline{)36} \\ 2 \overline{)18} \\ 9 \end{array} \right)$

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Rewrite the express as a perfect square \*leftover:

1.  $75x = \frac{25}{\text{perfect square}} * \frac{2x}{\text{leftover}}$

2.  $48x^3 = \frac{16x^2}{\text{perfect square}} * \frac{3x}{\text{leftover}}$

3.  $64x^7y^{15}z^2 = \frac{64x^6y^{14}z^2}{\text{perfect square}} * \frac{x}{\text{leftover}}$

4.  $18x^5y^9z^7 = \frac{9x^4y^8z^6}{\text{perfect square}} * \frac{2xz}{\text{leftover}}$

Rewrite the express as a perfect cube \*leftover:

1.  $16x = \frac{8}{\text{perfect cube}} * \frac{2x}{\text{leftover}}$

2.  $250x^4 = \frac{125x^3}{\text{perfect cube}} * \frac{2x}{\text{leftover}}$

3.  $81x^8y^5 = \frac{27x^6y^3}{\text{perfect cube}} * \frac{3x^2y^2}{\text{leftover}}$

4.  $-32x^6y^5z^7 = \frac{-8x^6y^3z^6}{\text{perfect cube}} * \frac{4yz}{\text{leftover}}$