

Warm Up Questions

1. Write as an entire radical

a) $4\sqrt{5}$ b) $6\sqrt{7}$ c) $3\sqrt{10}$ d) $8\sqrt{11}$

2. Reduce each of the following Radicals

a) $4\sqrt{50}$ b) $6\sqrt{48}$ c) $\sqrt{100}$ d) $\sqrt{704}$

3. State which of the following are equivalent to $\sqrt{112}$

$-2\sqrt{28}$ $3\sqrt{48}$ $4\sqrt{7}$ $2\sqrt{56}$ $2\sqrt{28}$

1. Write as an entire radical

a) $4\sqrt{5}$ b) $6\sqrt{7}$ c) $3\sqrt{10}$ d) $8\sqrt{11}$

$\sqrt{5 \times 16}$ $\sqrt{7 \times 36}$ $\sqrt{10 \times 9}$ $\sqrt{11 \times 64}$

$= \sqrt{80}$ $= \sqrt{252}$ $= \sqrt{90}$ $= \sqrt{704}$

2. Reduce each of the following Radicals

a) $4\sqrt{50}$

$4\sqrt{25 \times 2}$
 $= 20\sqrt{2}$

b) $6\sqrt{48}$

$6\sqrt{16 \times 3}$
 $= 24\sqrt{3}$

c) $\sqrt{100}$

$= 10$

d) $\sqrt{704}$

$\sqrt{64 \times 11}$
 $= 8\sqrt{11}$

3. State which of the following are equivalent to $\sqrt{112}$

$-2\sqrt{28}$	$3\sqrt{48}$	<u>$4\sqrt{7}$</u>	$2\sqrt{56}$	<u>$2\sqrt{28}$</u>
$-\sqrt{28 \times 4}$	$\sqrt{48 \times 9}$	$\sqrt{7 \times 16}$	$\sqrt{56 \times 4}$	$\sqrt{28 \times 4}$
$-\sqrt{112}$	$\sqrt{4 \times 32}$	$\sqrt{112}$	$\sqrt{224}$	$\sqrt{112}$

