

①

Math 8 practice problems for Quiz 1, 3, 2
pgs 43-44 # 1, 5, 8, 10, 12, 17

① a) $\sqrt{81} = 9$ b/c $9 \times 9 = 81$

b) $3.3^2 = 3.3 \times 3.3 = 10.89$

c) $\left(\frac{1}{5}\right)^2 = \frac{1}{5} \times \frac{1}{5}$ or $.2 \times .2 = \frac{1}{25}$ or 0.04

⑤

side	perimeter	Area
2 cm	$2 \times 4 = 8$ cm	$2 \times 2 = 4$ cm ²
3	$3 \times 4 = 12$ cm	$3 \times 3 = 9$ cm ²
$16 \div 4 = 4$ cm	16	$4 \times 4 = 16$ cm ²
$20 \div 4 = 5$ cm	20	$5 \times 5 = 25$ cm ²
$\sqrt{49} = 7$ cm	$7 \times 4 = 28$ cm	49
$\sqrt{100} = 10$ cm	$10 \times 4 = 40$ cm	100
n	$n \times 4 = 4n$	$n \times n = n^2$

⑧ a) $x^2 = 81$

b) $x^2 = 0.16$

c) $x^2 = \frac{1}{100}$

$\sqrt{x^2} = \sqrt{81}$

$\sqrt{x^2} = \sqrt{0.16}$

$\sqrt{x^2} = \sqrt{\frac{1}{100}}$

$x = 9$

$x = 0.4$

$x = \frac{1}{10}$ or 0.1

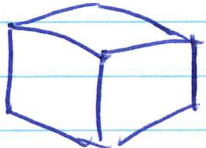
Math 8 pract problems for Quiz 3-1, 3-2

pg 43-44 # 1, 5, 8, 10, 12, 17

- 10) a) $0.4^3 = 0.4 \times 0.4 \times 0.4 = 0.064$
- b) $\sqrt[3]{27} = 3$ b/c $3 \times 3 \times 3 = 27$
- c) $\sqrt[3]{0.001} = 0.1$ b/c $0.1 \times 0.1 \times 0.1 = 0.001$

12) edge = $\frac{2}{3}$ ft

Cub



$$Vol = \frac{2}{3} \times \frac{2}{3} \times \frac{2}{3} = \frac{8}{27} \text{ ft}^3$$

OR $\frac{2 \times 2 \times 2}{3 \times 3 \times 3} = \frac{8}{27}$

OR $0.\overline{296}$

- 17) a) $x^3 = 125$ b) $x^3 = 0.008$ c) $x^3 = \frac{1}{27}$

$\rightarrow \sqrt[3]{x^3} = \sqrt[3]{125}$

$\sqrt[3]{x^3} = \sqrt[3]{0.008}$

$\sqrt[3]{x^3} = \sqrt[3]{\frac{1}{27}}$

look,
Different
than
 $\sqrt{\quad}$

$x = 5$

$x = 0.2$

$x = \frac{1}{3}$

OR $0.\overline{3}$