BAB 3 : KUASA DUA, PUNCA KUASA DUA, KUASA TIGA DAN PUNCA KUASA TIGA

NAMA : _____ KELAS : _____

KUASA TIGA DAN PUNCA KUASA TIGA

1. Cari nilai bagi yang berikut tanpa menggunakan kalkulator.

(a) $4^3 = 4 \times 4 \times 4$ $= 64$	(b) $18^3 =$	(c) $(-5)^3 =$
(d) $\left(\frac{3}{4}\right)^3 = \left(\frac{3}{4}\right) \times \left(\frac{3}{4}\right) \times \left(\frac{3}{4}\right)$ $= \frac{27}{64}$	(e) $\left(\frac{5}{6}\right)^3 =$	(f) $\left(-4\frac{1}{2}\right)^3 =$
(g) $(0.5)^3$ $= \left(\frac{5}{10}\right)^3$ $= \left(\frac{5}{10}\right) \times \left(\frac{5}{10}\right) \times \left(\frac{5}{10}\right)$ $= \frac{125}{1000}$ $= 0.125$	(h) $(0.2)^3$	(i) $(-0.3)^3$

2. Lengkapkan setiap yang berikut.

CONTOH

$(-1.5)^3 = -3.375$

Maka

$\sqrt[3]{-3.375} = \sqrt[3]{(-1.5)^3}$

$= \boxed{-1.5}$

1. $3 \times 3 \times 3 = 27$

Maka

$\sqrt[3]{27} = \sqrt[3]{\square \times \square \times \square}$

$= \square$

2. $0.9 \times 0.9 \times 0.9 = 0.729$

Maka

$\sqrt[3]{0.729} = \sqrt[3]{\square \times \square \times \square}$

$= \square$

3. $(-7)^3 = -343$

Maka

$\sqrt[3]{-343} = \sqrt[3]{\quad^3}$

$= \square$

4. $\left(\frac{2}{5}\right)^3 = \frac{8}{125}$

Maka

$\sqrt[3]{\frac{8}{125}} = \sqrt[3]{\quad^3} = \square$

5. $\left(-\frac{1}{4}\right)^3 = -\frac{1}{64}$

Maka

$\sqrt[3]{-\frac{1}{64}} = \sqrt[3]{\quad^3} = \square$

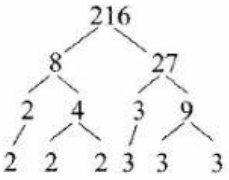
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3. Cari nilai punca kuasa dua berpandukan kaedah pemfaktoran perdana.

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CONTOH

216



$216 = 2 \times 2 \times 2 \times 3 \times 3 \times 3$
$= 2^3 \times 3^3$
$= (2 \times 3)^3$
$= 6^3$

$\sqrt[3]{216} = \sqrt[3]{6^3}$
$= 6$

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<td>(a) $\sqrt[3]{27}$</td>
<td>(b) $\sqrt[3]{64}$</td>
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<tr>
<td>(c) $\sqrt[3]{\frac{8}{125}}$</td>
<td>(d) $\sqrt[3]{\frac{216}{343}}$</td>
<td>(e) $\sqrt[3]{\frac{64}{729}}$</td>
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<tr>
<td>(f) $\sqrt[3]{3\frac{3}{8}}$</td>
<td>(g) $\sqrt[3]{1\frac{61}{64}}$</td>
<td>(h) $\sqrt[3]{0.027}$</td>
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