

- ② 5
- ④ r + t
- ⑥ 5 divided by c;  
division
- ⑧ 5 plus n;  
addition
- ⑩ 14   ⑫ 21   ⑭ 6
- ⑯ 24 cm   ⑰ 36 in
- ⑱ D   ⑳ A
- ㉒ 2½
- ㉔ 3
- ㉖ 48
- ㉘ 1
- ㉚ 39
- ㉜ 7
- ㉞ 150 mi
- ㉟ 4 km
- ㊳ 1350 mi
- ㊵ 31 ft
- ㊶ 60 in
- ㊸ 30 mi<sup>2</sup>
- ㊺ 99,550 mi<sup>2</sup>

$$r \cdot t = d \rightarrow \text{exp}$$

$$(8)(.5) = d$$

$$\underline{\underline{4 \text{ km} = d}}$$

8 kmph

30 min

↓

.5 h

1.2.  
Exponents &  
Powers

Aug. 31, 2006

Words to know...

Power / Exponent / Base /

factors

$$2^3 = 2 \cdot 2 \cdot 2$$

Translate  $2^3$  into English...

2 to the 3<sup>rd</sup> Power  
or

2 cubed

What it means is 2.2.2

Write the Power into Words.

$4^2$  → 4 to the Second Power  
or 4 Squared

$5^3$  → 5 to the Third Power  
or 5 cubed

$x^6$  → x to the 6 Power

Base to the Exponent Power

ex1

$$x^4$$

when  $x=2$

Use, Show, &  
Lable.  
All Three  
Steps

$$~~x^4~~$$

→ exp.

$$(2)^4$$

→ sub.

$$\underline{\underline{16}}$$

→ Simp.

ex2 | Let a=1 + b=2

i)  $(a^2) + (b^2) \rightarrow \text{exp.}$

$(\underline{1})^2 + (\underline{2})^2 \rightarrow \text{sub}$

$\frac{(1) + (4)}{\underline{\underline{5}}} \} \rightarrow \text{simp.}$

ii)  $(a+b)^2 \rightarrow \text{exp.}$

$(\underline{1} + \underline{2})^2 \rightarrow \text{sub.}$

$\frac{(3)^2}{\underline{\underline{9}}} \} \rightarrow \text{simp.}$

ex 3) Let x=4

i)  $2 \cdot x^3 \rightarrow \text{exp}$

$2 \cdot (4)^3 \rightarrow \text{sub.}$

$2 \cdot 64$   
128 }  $\rightarrow \text{simp}$

$\begin{array}{r} 2 \\ \times 64 \\ \hline 128 \end{array}$

ii)  $(2 \cdot x)^3 \rightarrow \text{exp.}$

$(2 \cdot (4))^3 \rightarrow \text{sub.}$

$(8)^3$   
512 }  $\rightarrow \text{simp}$

$\begin{array}{r} 3 \\ 64 \\ \times 8 \\ \hline 512 \end{array}$

# O.T.L.

① Pg 12-? : 1-3(a)  
5-8(a)

9-39(o)

41,43,44,45

② Turn in pg 6: odds  
in Bottom Slot.