(2) 5

(4) r + t

(6) 5 divided by c; division

(8) 5 plus n; addition

(10) 14 (12) 21 (14) 6

(16a) 24 cm (16b) 36 in

(18) D (20) A

(22) 2½

(24) 3

(26) 48

(28) 1

(30) 39

(32) 7

(34) 150 mi

(36) 4 km

(38) 1350 mi

(40) 31 ft

(42) 60 in

(44) 30 mi^2

(46) 99,550 mi^2

$r \cdot t = d$

8 kmph

$30 \text{ min} = .5 \text{ h}$

$8 \cdot (.5) = d$

$4 \text{ km} = d$

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 3rd Power

or

2 cubed

What it means is $2 \cdot 2 \cdot 2$

Write the Power into Words.

$4^2 \rightarrow$ 4 to the Second Power or 4 Squared

$5^3 \rightarrow$ 5 to the third Power or 5 Cubed

$x^6 \rightarrow$ x to the 6 Power

Base to the Exponent Power

ex1)

x^4 when $x=2$

Use, Show & Lable All 3 Steps

x^4 → exp.

$(2)^4$ → sub.

$2 \cdot 2 \cdot 2 \cdot 2$

16 } simp.

ex2) Let $a=1$ + $b=2$

i) $(a^2)+(b^2)$ → exp.

$((1)^2)+((2)^2)$ → sub.

$(1)+(4)$

5 → simp.

ii) $(a+b)^2$ → exp.

$((1)+(2))^2$ → sub.

$(3)^2$

9 → simp.

ex 3) Let $x = 4$

i) $2 \cdot x^3$ → exp

$2 \cdot (4)^3$ → sub

$2 \cdot 64$

128 → simp.

$4 \times 4 = 16$, $16 \times 4 = 64$, $64 \times 2 = 128$

ii) $(2 \cdot x)^3$ → exp.

$(2 \cdot (4))^3$ → sub.

$(8)^3$

512 → simp.

$8 \times 8 = 64$, $64 \times 8 = 512$

O.T.L.

① Pg 12-?: 1-3(a)
5-8(a)
9-39(o)
41,43,44,45

② Turn in
Pg 6.2 (+ handout) in
5th slot!