(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 $mi^2$

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 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.

$(1)+(4)$ → simp.

$5$

ii) $(a+b)^2$ → exp.

$((1)+(2))^2$ → sub

$(3)^2$ → simp.

$9$

ex 3) Let $x = 4$

i) $2 \cdot x^3$ → exp

$2 \cdot (4)^3$ → sub

$2 \cdot 64$

$128$ → simp.

16
4
64

ii) $(2 \cdot x)^3$ → exp

$(2 \cdot (4))^3$ → sub.

$(8)^3$

$512$ → simp

2
64
8
512

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# O.T.L.

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

② Turn in pg 6-? 1-45 odd