

Sept. 01, 2005

(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) $2\frac{1}{2}$

(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) $99,550 \text{ mi}^2$

$$r \cdot t = d$$

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

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

$$r = 8 \text{ kph}$$

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

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 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

$x^4 \rightarrow \text{exp}$

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

$2 \cdot 2 \cdot 2 \cdot 2$ } $\rightarrow \text{simp.}$
16

ex2] Let a=1 + b=2

i) $(a^2) + (b^2)$ $\rightarrow$ exp.
 $(\underline{1})^2 + (\underline{2})^2$ $\rightarrow$ sub.
 $\underline{1} + \underline{4}$ } simp.
5

ii) $(a+b)^2$ $\rightarrow$ exp.
 $(\underline{1} + \underline{2})^2$ $\rightarrow$ sub.
 $\underline{3}^2$ } $\rightarrow$ simp.
9

ex 3) Let $x = 4$

i) $2 \cdot x^3 \rightarrow \text{exp.}$
 $2 \cdot \underline{(4)}^3 \rightarrow \text{sub.}$
 $\left. \begin{array}{r} 2 \cdot 64 \\ 128 \end{array} \right\} \rightarrow \text{Simp.}$

$\begin{array}{r} 2 \\ 16 \\ \times 4 \\ \hline 64 \\ \times 2 \\ \hline 128 \end{array}$

ii) $(2 \cdot x)^3 \rightarrow \text{exp.}$
 $(\underline{2 \cdot (4)})^3 \rightarrow \text{sub.}$
 $\left. \begin{array}{r} (8)^3 \\ 512 \end{array} \right\} \rightarrow \text{Simp.}$

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

O.T.L.

① Pg 12-? : 1-3(a)

5-8(a)

9-39(o)

41,43,44,45

② Turn in

Pg 6-7: odd in 4th slot