

Name:

UNIT 6 - DAY 3
PROPERTIES OF EXPONENTS

1) $x^2 \cdot x^4$ x^6
E

8) $y^3 \cdot x^4 \cdot y$ $y^4 x^4$
N

2) $(2x)^5$ $2^5 x^5$
A

9) $(x^2)^3 \cdot (y^{10})^3$ $x^6 y^{30}$
R

3) $(x^4)^{10}$ x^{40}
P

10) $y^9 \cdot y^2 \cdot y^6$ y^{17}
I

4) $(2x^2 y^2)^5$ $2^5 x^{10} y^{10}$
S

11) $(y x^4)^2$ $y^2 x^8$
F

5) $(3x^3)^2 \cdot x^7$ $3^2 x^6 x^7 = 3^2 x^{13}$
W

12) $x^4 \cdot (2x^3)^3$ $2^3 x^4 x^9 = 2^3 x^{13}$
E

6) $(y^4)^{16}$ y^{64}
T

13) $(x^6)^4 \cdot (x^2)^{11}$ $x^{24} x^{22} = x^{46}$
H

7) $(2x^3 y^2)^2$ $2^2 x^6 y^4$
A

14) $(2x)^3 \cdot (3x)^2$ $2^3 \cdot x^3 \cdot 3^2 \cdot x^2$
 $3^2 2^3 x^5$
N

Why were all the ink spots crying?

Because their **F** **A** **T** **H** **E** **R** **W** **A** **S**
 $\frac{x^8 y^2}{2^2 x^6 y^4}$ $\frac{y^{64}}{x^{46}}$ $\frac{x^6}{x^6 y^{30}}$ $\frac{3^2 x^{13}}{2^5 x^5}$ $\frac{2^5 x^{10} y^{10}}$

I **N** **T** **H** **E** **P** **E** **N**
 $\frac{y^{17}}{2^3 \cdot 3^2 \cdot x^5}$ $\frac{y^{64}}{x^{46}}$ $\frac{x^6}{x^6}$ $\frac{x^{40}}{2^3 x^{13}}$ $\frac{x^4 y^4}{x^4 y^4}$

