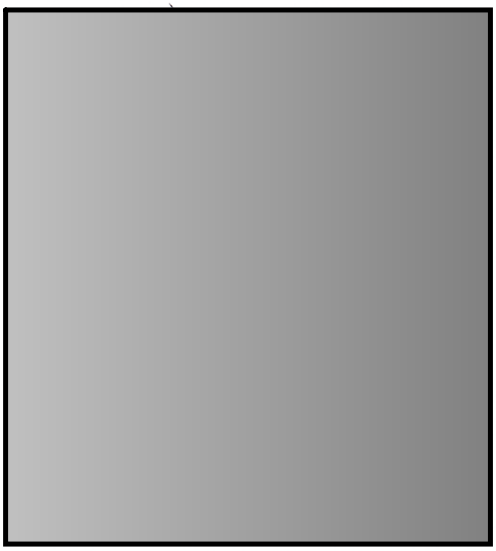
Intro to Integrated
Exponents Test Review Worksheet

Name: Key

1. $(6xy^5)^0$ 1
2. x^{-6} $\frac{1}{x^6}$
3. $\frac{1}{x^{-3}y^{-4}}$ x^3y^4
4. x^5y^{-2} $\frac{x^5}{y^2}$
5. $(x^3)(5x^2)$ $5x^5$
6. $(5x^2y)(6x^3y^5)$ $30x^5y^6$
7. $(-7x^2y^3)(-2xy)$ $14x^3y^4$
8. $(x^3y)(xy)$ x^4y^2
9. $(5x)^2(4x)^0$ $25x^2$
10. $(4x^3y^4)^2$ $16x^6y^8$
11. $\frac{x^8}{x^8}$ 1
12. $\frac{x^{12}}{x}$ x^{11}
13. $\frac{16x^3}{10x^2}$ $\frac{8x}{5}$
14. $\frac{49x^4}{7x}$ $7x^3$
15. $\frac{9x^9yz^5}{72x^4y^7z^3}$ $\frac{x^5z^2}{8y^6}$



16

Bart ran 10560 feet in 30 minutes.
Roger ran 1 mile in 10 minutes.
How much faster was Roger (1 mile = 5280 feet)

2 miles, ½ hour, 1 mile, 10 min / 60 min = 1/6 hour

	d	r	t
B	2	r	½
R	1	r	⅙

$2 = r \cdot \frac{1}{2} \cdot \frac{2}{1}$

$4 = r$ Bart's speed

$1 = r \cdot \frac{1}{6} \cdot \frac{6}{1}$

$6 = r$ Roger's speed

6 − 4 = 2 mph faster

17

What is the largest of three consecutive positive integers if the sum of the smaller two integers is 11.

odd

X - smallest 5

X+1 - 2nd smallest 6

X+2 - largest 7

$X + X+1 = 11$

$2X+1 = 11$

$-1 \quad -1$

$2X = 10$

$X = 5$

largest = 7