4.2-4.4 Review Notes

1. State whether the number is prime, composite, or neither.

(prime = factor 1 and itself; composite = more factors; 0, 1 only)

97	91	110	39
prime	composite	composite	composite
1 x 97	1 x 91	1 x 110	1 x 39
	7 x 13	10 x 11	3 x 13

2. What fraction is equivalent to $35/21$

a $5/3$ b $7/3$ c $3/5$ d $1\frac{1}{2}$

3. What fraction is not equivalent to $8/10$

a $4/5$ b $16/20$ c $-8/10$ d $-8/-10$

4. Write using exponents $-2 \cdot m \cdot 5 \cdot n \cdot n = -10mn^2$

5. Simplify $2^4 + 4 * 2^4 = 16 + 4 * 16 = 80$

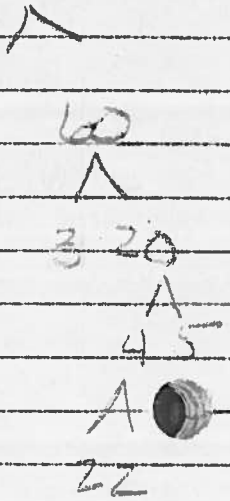
6. Write $15/70$ in simplest form $\frac{15 \div 5}{70 \div 5}$

7. Find the GCF $48x^4$ and $27x^2 = 3x^2$

8. Find the GCF 8, 10, and 15

9 What is the Prime factorization of 180

$2 \cdot 2 \cdot 3 \cdot 3 \cdot 5 = 2^2 \cdot 3^2 \cdot 5$



Prime or Composite?

1. 83 21

2. $-6 \cdot x \cdot x \cdot n \cdot -2$ $12x^2n$

3. $36x^3$ & $12x^3$ $12x^3$

4. $3^3 \cdot 5 \cdot 2^4$

5.

$a^m \cdot a^n = a^{m+n}$

$(a^m)^n = a^{m \cdot n}$

$\frac{a^m}{a^n} = a^{m-n}$

$a^{-n} = \frac{1}{a^n}$

Review Notes Day 2

12-1

$(2^4)^2 = 2^8$

$3^3 \cdot 3^2 = 3^5 = 243$

$\frac{5b^5}{20b^3} = \frac{b^2}{4}$

$\frac{5^4}{5^2} = 5^4$

$b^5 \cdot a^4 \cdot b^3 \cdot a^6$

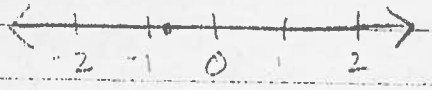
$b^8 a^{10}$

$2b^8 / 10b^{11}$ $\frac{2b^8}{10b^{11}}$ $\frac{1}{5b^3}$

or $\frac{1}{5} b^{-3}$ or $\frac{1}{5} \cdot \frac{1}{b^3}$

$\frac{4x^4}{20x^2}$ $\frac{1}{5} x^2$ $\frac{x^2}{5}$

Graph on a number line $-\frac{3}{4}$



Graph on a number line $4\frac{2}{3}$

Write in scientific notation

.00233
2.33×10^{-3}

* Move from the new decimal to the original

← negative
→ positive

52,700

5.27×10^{4}

Write in standard notation

5.35×10^{5}

535000

7.39×10^{-3}

.00739