

Unit 1 Test Review

Date _____ Period _____

Simplify.

1) $\sqrt{36}$

2) $\sqrt{150}$

3) $\sqrt{72}$

4) $\sqrt{128}$

5) $\sqrt{144}$

Insert the Correct Symbol

6) 0.63 _____ 0.613

7) $\frac{1}{4}$ _____ $\frac{1}{6}$

8) $\frac{1}{3}$ _____ $\frac{2}{3}$ _____ $\frac{4}{6}$

9) -2567 _____ -2390

10) 8239 _____ 8062

11) 0.45 _____ 0.15

12) $\frac{2}{5}$ _____ $\frac{4}{10}$

13) $\sqrt{61}$ _____ $\frac{22}{3}$

Order From Least to Greatest

14) $\frac{3}{5}, \frac{1}{5}, \frac{6}{5}$

15) $3.12, 4, 3\frac{2}{9}$

16) $-4000, -4700, -4007, -4070$

17) $\frac{3}{7}, \frac{3}{8}, \frac{3}{5}$

Find the Greatest Common Factor (GCF)

18) $54x^2y^3$ and $30xy^4$

19) $12x^3y^2z$ and $20x^3y^2$

Find the Least Common Multiple (LCM)

20) $7x^2y^2z^4$ and $35x^2y^4$

21) $21x^2yz^3$ and $6x^4y^2z$

Write as a Decimal or a Fraction

22) $\frac{1}{3}$

23) $\frac{1}{5}$

24) 0.777777....

25) 0.23

Classify the Real Numbers below as Rational or Irrational Numbers

26) $\frac{\pi}{2}$, $\sqrt{8}$, $\sqrt{4}$, $\sqrt{90}$, $\frac{2}{3}$, π , $\frac{1}{4}$

Evaluate each expression.

27) $(11 + 1) \div 3$

28) $(4 \cdot 2) \div (1 + 3)$

29) $(5 + 5)(6 - 1)$

30) $(1 - 1) \cdot 2^3 + 3$

31) $(5 - 8 \div (6 - 2)) \cdot 4$

Evaluate each using the values given.

32) $q - m + 4$; use $m = 1$, and $q = 4$

33) $x - z \div 2 - y$; use $x = 6$, $y = 3$, and $z = 2$

34) $(ca - 3) \div 5$; use $a = 4$, and $c = 2$

35) $10 + n + 1 + p$; use $n = 1$, and $p = 1$