UNIT 2 Real Numbers

NAME:_____

REVIEW

DATE:_____

Circle the number set or number sets in which the number lies.		
1. -17 Whole Integer Rational Irrational	2. $\sqrt{13}$ Whole Integer Rational Irrational	3. $\frac{25}{7}$ Whole Integer Rational Irrational

Put in order from least to greatest.

4. $\|-5\|$, 4.9 , $\frac{26}{5}$, $5\frac{1}{10}$	5. $-3, -\frac{10}{3}, -3.25, -3\frac{2}{5}$

Evaluate each expression. Reduce fractions when possible. Leave as improper fractions.

6. $-4 + (-5)$	7. $4.5 - (-5.2)$	8. $-\frac{3}{4}(-5)$
9. $\frac{2}{9} \div \left(-\frac{7}{5}\right)$	10. $4\frac{2}{3} + (-5)$	11. $-4(-5)$
12. $\sqrt{\frac{45}{5}}$	13. $\left\|\frac{3}{5} + \left(-\frac{5}{6}\right)\right\|$	14. $-2 \div \frac{3}{4}$

Circle the correct property.

15. $4(x + 2) = 4x + 8$

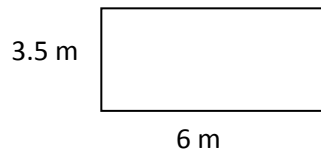| Commutative Property of Addition	Associative Property of Addition	Commutative Property of Multiplication	Associative Property of Multiplication	Distributive Property	None

Simplify each expression.

16. $6(3y - 5)$	17. $(4m - 1)2 + 8$	18. $6r + 2(r + 4)$
19. $3h - 14 - h + 10$	20. $7(w - 5) + 3(3 + 2w)$	21. $-(2s - 3) + 17s$

APPLICATION!

22. Find the area and perimeter of the rectangle.	23. Find the area and perimeter of the triangle.
p = add up all the sides $A = lw$	p = add up all the sides $A = \frac{1}{2}bh$

22.

3.5 m

6 m

Perimeter =

Area =

23.

$\frac{3}{4}$ cm $\frac{3}{4}$ cm

$\frac{5}{4}$ cm

$\frac{3}{4}$ cm
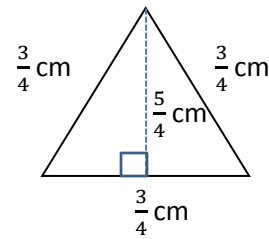
Perimeter =

Area =

---

24. Given the set of numbers in the domain below, use the function to find the range.

Domain $\left\{-2.5, -\frac{3}{4}, 0, 4\right\}$

Range $\left\{ \qquad \right\}$

Function $y = 4 + 2x$

Weight Change

25. Bob records his weight change for a month. What is his total change?

Bar chart titled "Weight Change" with y-axis "Pounds" ranging from -3 to 5, and x-axis showing Week 1 (about 4.5), Week 2 (about -3), Week 3 (about -2), Week 4 (about 3).

---
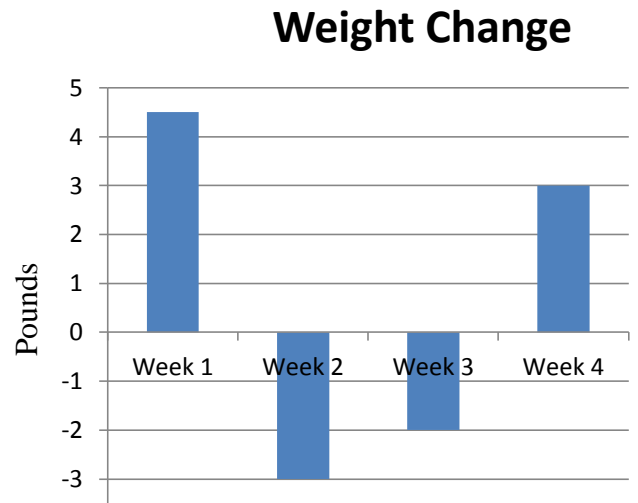
26. Mr. Kelly is reading Martha Stewart's Living magazine one day. He comes across a delicious recipe for refreshing strawberry lemonade. Mr. Kelly only wants to make half the recipe. Change the recipe so that it makes a half of batch of lemonade.

Serves 9

- 1.5 pints of strawberries
- $\frac{20}{9}$ teaspoons of sugar
- 10 tablespoons of lemon juice
- $4\frac{3}{4}$ liters of water

Serves _____

- _____ pints of strawberries
- _____ teaspoons of sugar
- _____ tablespoons of lemon juice
- _____ liters of water