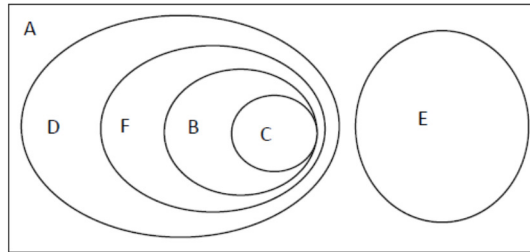


Name: _____ BLOCK _____

Math 10 100% Quiz

Fill in the following diagram illustrating the relationship among the subsets of the real number system. (Use descriptions on previous page)






- A _____
- B _____
- C _____
- D _____
- E _____
- F _____

Column 1.	Column 2. <i>Complete this column if you make an error in column 1.</i>	Column 3 <i>Complete this column if you make an error in column 2.</i>
1. To what set(s) of the real number system does -3 belong?	To what set(s) of the real number system does $\frac{1}{2}$ belong?	To what set(s) of the real number system does 11 belong?
2. Find the GCF of 24,120 and 72	Find the GCF of 16,100 and 56	Find the GCF of 24,102 and 64
3. Find the LCM of 18,20,30	Find the LCM of 18,24,30	Find the LCM of 22,28,35
4. Simplify: $\sqrt{75}$	Simplify: $\sqrt{98}$	Simplify: $\sqrt{32}$

Name: _____ BLOCK _____

5. Simplify: $\sqrt{25x^6}$	Simplify: $\sqrt{36b^4}$	Simplify: $\sqrt{49x^6y^2}$
6. Simplify: $\sqrt[3]{54}$	Simplify: $\sqrt[3]{56}$	Simplify: $\sqrt[3]{24}$
7. Evaluate: $\sqrt{\frac{16}{25}}$	Evaluate: $\sqrt{\frac{36}{49}}$	Evaluate: $\sqrt{\frac{100}{121}}$
8. Simplify: $2\sqrt{10} \times 3\sqrt{6}$	Simplify: $2\sqrt{5} \times 7\sqrt{10}$	Simplify: $2\sqrt{2} \times 5\sqrt{10}$
9. Simplify: $-2\sqrt{2} \times -3\sqrt{14}$	Simplify: $-5\sqrt{6} \times 3\sqrt{8}$	Simplify: $-7\sqrt{3} \times -2\sqrt{15}$

Name: _____ BLOCK _____

<p>10. Find the missing side in simplest radical form of a right angled triangle with legs 3 and 6.</p>	<p>Find the missing side in simplest radical form of a right angled triangle with legs 5 and 5.</p>	<p>Find the missing side in simplest radical form of a right angled triangle with legs 4 and 8.</p>
<p>11. Find the area of the shaded region shown in lowest mixed radical form:</p> <p style="text-align: center;">$3\sqrt{6}$</p> <p>$2\sqrt{3}$ </p>	<p>Find the area of the shaded region shown in lowest mixed radical form:</p> <p style="text-align: center;">$7\sqrt{10}$</p> <p>$5\sqrt{5}$ </p>	<p>Find the area of the shaded region shown in lowest mixed radical form:</p> <p style="text-align: center;">$5\sqrt{14}$</p> <p>$2\sqrt{7}$ </p>
<p>12. Simplify in lowest mixed radical form: $\sqrt[3]{48}$</p>	<p>Simplify in lowest mixed radical form: $\sqrt[3]{54}$</p>	<p>Simplify in lowest mixed radical form: $\sqrt[3]{-250}$</p>