1. List all the perfect squares between 100 and 200 (inclusive). Also write their positive square root.

Perfect Square	Square Root
100	10
121	11

2. Simplify

a. $\sqrt{16} = 4$

b. $\sqrt{25}$

c. $\sqrt{81}$

d. $\sqrt{49}$

   e. $\sqrt{64}$

   f. $\sqrt{9}$

   g. $\sqrt{121}$

   h. $\sqrt{100}$

   i. $\sqrt{36}$

   j. $\sqrt{144}$

3. Estimate square roots

   a. $\sqrt{13}$ lies between 3 and 4

   b. $\sqrt{20}$ lies between __ and __

   c. $-\sqrt{\dfrac{1}{25}} = -\dfrac{\sqrt{1}}{\sqrt{25}}$
$$= -\dfrac{1}{5}$$

   d. $-\sqrt{144}$

   e. $\sqrt{15^2}$

f. $(\sqrt{6})^2$

g. $-\sqrt{81}$

a.

$\sqrt{16} = 4hahaha$

b.

$-\sqrt{\frac{1}{25}} = -\frac{\sqrt{1}}{\sqrt{25}} = -\frac{1}{5}$

c.

$-\sqrt{144}$

d.

$\sqrt{15^2}$

e.

$(\sqrt{6})^2$

f.

$-\sqrt{81}$

For any nonnegative real numbers a and b:

$$\sqrt{ab} = \sqrt{a} \cdot \sqrt{b}$$

$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}} \quad \text{when } b > 0$$

2. Evaluate

a.

$\sqrt{100}$

b.

$\sqrt{121}$

c.

$-\sqrt{400}$

d.

$\sqrt{625}$