Solve for r.

$r^2 = 81$

$r =$ [ ] or [ ]

Solve for r.

$49 = r^2$

$r =$ [ ] or [ ]

Solve for h.

$h^2 = 144$

$h =$ [ ] or [ ]

Solve for m.

$9 = m^2$

$m =$ [ ] or [ ]

Solve for n.

$64 = n^2$

$n =$ [ ] or [ ]

Solve for c.

$c^2 = 36$

$c =$ [ ] or [ ]

Solve for h.

$121 = h^2$

$h =$ [ ] or [ ]

Solve for p.

$p^2 = 4$

$p =$ [ ] or [ ]

Solve for g.

$25 = g^2$

$g =$ [ ] or [ ]

Solve for r.

$r^2 = 16$

$r =$ [ ] or [ ]

Solve for s.

$100 = s^2$

$s =$ [ ] or [ ]

Solve for n.

$81 = n^2$

$n =$ [ ] or [ ]

Worksheet Level 2:

Goals:

Calculate positive and negative roots of square roots

Concept # _____

Practice #1

1) $-\sqrt{100}$

2) $-\sqrt{9}$

3) $\sqrt{121}$

4) $\sqrt{64}$

5) $\sqrt{25}$

6) $-\sqrt{36}$

7) $-\sqrt{25}$

8) $\sqrt{49}$

9) $-\sqrt{4}$

10) $\sqrt{36}$

11) $\sqrt{100}$

12) $-\sqrt{121}$

13) $-\sqrt{144}$

14) $\sqrt{4}$

15) $\sqrt{144}$

16) $\sqrt{81}$

17) $\sqrt{0}$

18) $-\sqrt{81}$

19) $\sqrt{9}$

20) $-\sqrt{64}$

21) $\sqrt{\frac{16}{121}}$

22) $\sqrt{\frac{4}{100}}$

23) $\sqrt{\frac{9}{100}}$

24) $\sqrt{\frac{4}{144}}$

25) $\sqrt{\frac{49}{64}}$

26) $\sqrt{\frac{1}{9}}$

Level 3 Practice:

Estimate the following square roots to the nearest tenth.

1) $\sqrt{12}$

2) $\sqrt{45}$

3) $\sqrt{80}$

4) $\sqrt{50}$

5) $\sqrt{8}$

6) $\sqrt{75}$

7) $\sqrt{20}$

8) $\sqrt{27}$

9) $\sqrt{18}$

10) $\sqrt{32}$

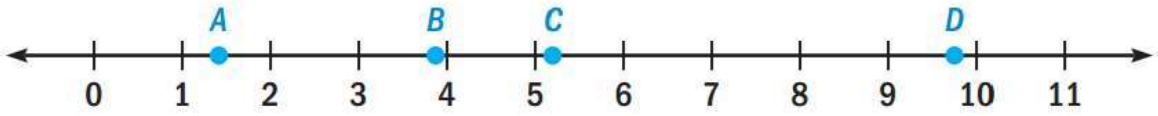
Section 2

Evaluate the expression when $a = 12$ and $b = 4$.

6. $\sqrt{a+b}$ **7.** $\sqrt{b^2-a}$ **8.** $3\sqrt{ab+1}$

Section 3

Match each square root to the letter on the number line.



54. $\sqrt{15}$ **55.** $\sqrt{2}$ **56.** $\sqrt{95}$ **57.** $\sqrt{27}$