

Math Sheet

Name _____ Score _____ / 10 Teacher _____ Date _____

Solving Quadratics by Taking Square Roots

Solve in the real numbers by isolating the squared variable and taking both square roots. Round noninteger roots to the nearest hundredth.

1. $n^2 = 121$

6. $q^2 = 11$

2. $m^2 = 182$

7. $b^2 = 49$

3. $c^2 = 144$

8. $p^2 = 152$

4. $x^2 = 195$

9. $r^2 = 148$

5. $s^2 = 0$

10. $a^2 = 36$

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Answer Key

Solve in the real numbers by isolating the squared variable and taking both square roots. Round noninteger roots to the nearest hundredth.

1. $n^2 = 121$

$$n^2 = (121 - (0)) / (1) = 121$$
$$n = \pm 11$$

6. $q^2 = 11$

$$q^2 = (11 - (0)) / (1) = 11$$
$$q \approx \pm 3.32$$

2. $m^2 = 182$

$$m^2 = (182 - (0)) / (1) = 182$$
$$m \approx \pm 13.49$$

7. $b^2 = 49$

$$b^2 = (49 - (0)) / (1) = 49$$
$$b = \pm 7$$

3. $c^2 = 144$

$$c^2 = (144 - (0)) / (1) = 144$$
$$c = \pm 12$$

8. $p^2 = 152$

$$p^2 = (152 - (0)) / (1) = 152$$
$$p \approx \pm 12.33$$

4. $x^2 = 195$

$$x^2 = (195 - (0)) / (1) = 195$$
$$x \approx \pm 13.96$$

9. $r^2 = 148$

$$r^2 = (148 - (0)) / (1) = 148$$
$$r \approx \pm 12.17$$

5. $s^2 = 0$

$$s^2 = (0 - (0)) / (1) = 0$$
$$s = 0$$

10. $a^2 = 36$

$$a^2 = (36 - (0)) / (1) = 36$$
$$a = \pm 6$$