



Math worksheet on 'Square Roots Approximating (Level 3)'. Part of a broader unit on 'Squares and Square Roots - Advanced'

Learn online:

[app.mobius.academy/math/units/squares\\_and\\_square\\_roots\\_advanced/](http://app.mobius.academy/math/units/squares_and_square_roots_advanced/)

**1** Find the best approximation of the given square root

$$\sqrt{130}$$

|          |          |          |
|----------|----------|----------|
| <b>a</b> | <b>b</b> | <b>c</b> |
| 10.7     | 12.9     | 9.2      |
| <b>d</b> | <b>e</b> | <b>f</b> |
| 12.1     | 13.6     | 11.4     |

**2** Find the best approximation of the given square root

$$\sqrt{159}$$

|          |          |          |
|----------|----------|----------|
| <b>a</b> | <b>b</b> | <b>c</b> |
| 14.1     | 11.1     | 11.9     |
| <b>d</b> | <b>e</b> | <b>f</b> |
| 13.3     | 12.6     | 10.4     |

**3** Find the best approximation of the given square root

$$\sqrt{152}$$

|          |          |          |
|----------|----------|----------|
| <b>a</b> | <b>b</b> | <b>c</b> |
| 13.1     | 13.8     | 14.6     |
| <b>d</b> | <b>e</b> | <b>f</b> |
| 12.3     | 10.1     | 10.9     |

**4** Find the best approximation of the given square root

$$\sqrt{136}$$

|          |          |          |
|----------|----------|----------|
| <b>a</b> | <b>b</b> | <b>c</b> |
| 12.4     | 10.9     | 13.2     |
| <b>d</b> | <b>e</b> | <b>f</b> |
| 13.9     | 9.5      | 11.7     |

**5** Find the best approximation of the given square root

$$\sqrt{129}$$

|          |          |          |
|----------|----------|----------|
| <b>a</b> | <b>b</b> | <b>c</b> |
| 11.4     | 10.6     | 12.1     |
| <b>d</b> | <b>e</b> | <b>f</b> |
| 9.9      | 9.1      | 13.6     |

**6** Find the best approximation of the given square root

$$\sqrt{138}$$

|          |          |          |
|----------|----------|----------|
| <b>a</b> | <b>b</b> | <b>c</b> |
| 10.3     | 9.5      | 12.5     |
| <b>d</b> | <b>e</b> | <b>f</b> |
| 11       | 11.7     | 14       |

**7** Find the best approximation of the given square root

$$\sqrt{133}$$

|          |          |          |
|----------|----------|----------|
| <b>a</b> | <b>b</b> | <b>c</b> |
| 10.8     | 13.8     | 11.5     |
| <b>d</b> | <b>e</b> | <b>f</b> |
| 13       | 12.3     | 9.3      |