

SOL Warm-Up

Graphing Calculator Active

A.3 (a) Estimating square roots to nearest tenth

1. What is the value of $5\sqrt{33}$ to the nearest tenth?

- A 10.7
- B 28.7
- C 32.4
- D 165.0

2. What is the value of $6\sqrt{20}$ to the nearest tenth?

- A 16.8
- B 22.8
- C 26.8
- D 30.8

3. What is the value of $\sqrt{8x}$ to the nearest tenth if $x = 120$?

- A 31.0
- B 45.5
- C 128
- D 960

4. What is the value of $4\sqrt{3} \cdot \sqrt{14}$ to the nearest tenth?

- A 9.3
- B 6.5
- C 25.9
- D 33.4

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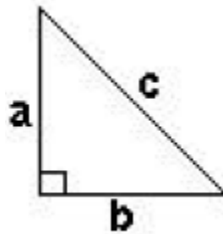
A.3 (b) Finding square roots and interpreting values for a given situation

1. Which is closest to the value of $x = \sqrt{\frac{y}{0.125}}$ if $y = 98$?

- A 4
- B 28
- C 49
- D 784

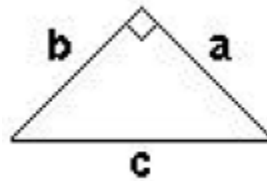
2. Which is closest to the value of c , if $a = 8$ and $b = 4$?

- A 6.93
- B 8.94
- C 9.38
- D 9.94



3. Which is closest to the value of b , if $a = 6$ and $c = 12$?

- A 3.16
- B 10.39
- C 10.94
- D 12.17



4. A wire 200 feet long goes from the ground to the top of a pole 125 feet tall. How far is the wire (at the ground) from the bottom of the pole (to the nearest tenth of a foot)?

- A 75.0 ft
- B 125.3 ft
- C 150.1 ft
- D 156.6 ft

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A.3 (c) Expressing square roots in simplest radical form

1. Express $\sqrt{50}$ in simplest radical form.

A $2\sqrt{25}$

B $2\sqrt{5}$

C $5\sqrt{2}$

D $25\sqrt{2}$

2. Express $\sqrt{32}$ in simplest radical form.

A $2\sqrt{8}$

B $4\sqrt{2}$

C $8\sqrt{2}$

D $2\sqrt{4}$

3. Express $\sqrt{2} \cdot \sqrt{18}$ in simplest radical form.

A $3\sqrt{4}$

B $2\sqrt{9}$

C 36

D 6