

Gillespie

Course 3: Learning Check Ch1d

Rational Numbers

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Directions: When working each of the following questions, be sure to show all work.

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1) Solve  $\sqrt{169}$

- a) 12
- b) 13
- c) 14
- d) 15

2) Solve for  $m$  if  $m^2 = 225$

*(hint: find the square root of 225)*

- a) 12
- b) 13
- c) 14
- d) 15

3) Estimate  $\sqrt{120}$

- a)  $\approx 11$
- b)  $\approx 12$
- c)  $\approx 14$
- d)  $\approx 20$

4) Estimate  $\sqrt[3]{126}$

(hint: estimate the cube root of 126)

a)  $\approx -5$

b)  $\approx 5$

c)  $\approx 11$

d)  $\approx 25$

5) Express all values in scientific notation  $\frac{(2130)-(.045)}{.00846}$

a)  $\frac{(2.13 \times 10^{-3}) - (4.5 \times 10^2)}{8.46 \times 10^3}$

b)  $\frac{(2.13 \times 10^3) - (4.5 \times 10^{-2})}{8.46 \times 10^{-3}}$

c)  $\frac{(2.130 \times 10^4) - (4.5 \times 10^{-2})}{8.46 \times 10^{-4}}$

d) none of the above