

Benchmark 2 Homework 1**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

Write each expression using exponents.

1 $2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$

A 5^2

B 2^{-5}

C 2^4

D 2^5

3 $b \cdot b \cdot b \cdot b \cdot b \cdot b \cdot g \cdot g \cdot g \cdot g \cdot g \cdot g$

A $6^b 6^g$

B $b^{-6} g^{-6}$

C $b^5 g^5$

D $b^6 g^6$

Write each number in scientific notation.

4 2,825

A 2.825×10^5

B 2.825×10^6

C 2.825×10^{-3}

D 2.825×10^3

5 0.2447

A 2.447×10^{-6}

B 2.447×10^{-1}

C 2.447×10^{-7}

D 2.447×10^2

Estimate to the nearest whole number.

6 $\sqrt{47}$

A 8

B 6

C 7

D 3

7 $\sqrt{322.7}$

A 18

B 19

C 17

D 161.4

Name all sets of numbers to which each real number belongs.

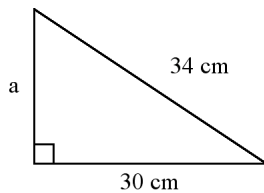
8 $\sqrt{1}$

- A Real and irrational
- B Real and rational.
- C Real, rational, and integer
- D Real, rational, integer, and whole

9 $\frac{-49}{7}$

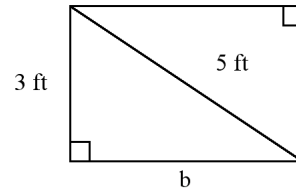
- A Real, rational, integer, and whole
- B Real, rational, and integer
- C Real and irrational
- D Real and rational

- 10 Write an equation you could use to find the length of the missing side of each right triangle. Then find the missing length. Round to the nearest tenth if necessary.



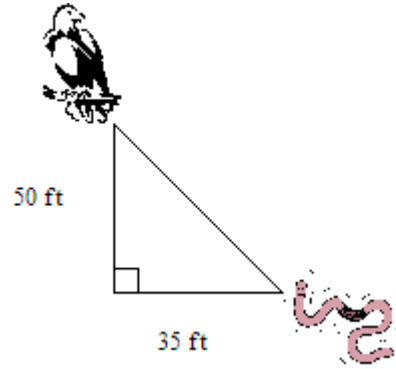
- A 16 cm
- B 45.34 cm
- C 256 cm
- D 4 cm

- 11 Write an equation you could use to find the length of the missing side of each right triangle. Then find the missing length. Round to the nearest tenth if necessary.



- A 2 ft
- B 16 ft
- C 4 ft
- D 5.83 ft

- 12 How far is the bird from the worm? Round to the nearest whole number if necessary.



- A 61 ft
- B 60 ft
- C 55 ft
- D 50 ft