

## EXERCISE

## BGCSE – Approximation

**1.** Write 956.97 correct to

- (a) the nearest hundred, [1]
- (b) two significant figures, [1]
- (c) one decimal place. [1]

**2.** Write the number 0.0876 correct to

- (a) two decimal places,

\_\_\_\_\_ [1]

- (b) two significant figures,

\_\_\_\_\_ [1]

- (c) the nearest tenth.

\_\_\_\_\_ [1]

**3.** Write down the value of  $\frac{15299}{64}$

- (a) exactly,

Answer: \_\_\_\_\_ [1]

- (b) to one decimal place,

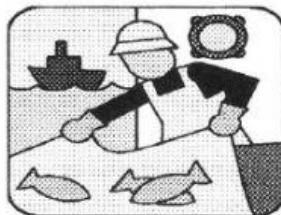
Answer: \_\_\_\_\_ [1]

- (c) to two significant figures,

Answer: \_\_\_\_\_ [1]

- (d) to the nearest hundred.

Answer: \_\_\_\_\_ [1]



For the year 2003, The Department of Fisheries reported an export of 6,427,623 pounds of crawfish.

(a) Write this number correct to

(i) the nearest thousand,

Answer \_\_\_\_\_ [1]

(ii) two significant figures.

Answer \_\_\_\_\_ [1]

5. (a) Arrange the following decimals in order from smallest to largest.

0.03    0.0043    0.0304    0.034

Answer \_\_\_\_\_ [2]

(b) Dave obtained an answer of 0.070625 on his calculator.  
He rounded this number off to 0.0706.

State the amount of    i. decimal places he rounded to,

Answer \_\_\_\_\_ [1]

ii. significant figures he rounded to.

Answer \_\_\_\_\_ [1]

6. Round 3859.26 correct to:

- a. Nearest hundred
- b. 1 d.p.
- c. 2 s.f.
- d. Nearest whole number

7. (a) Use your calculator to work out the exact value of

$$\frac{32.45 \times 1.392}{0.6}$$

Answer \_\_\_\_\_ [1]

(b) Express the answer in (a) correct to

- (i) two decimal places,

Answer \_\_\_\_\_ [1]

- (ii) three significant figures.

Answer \_\_\_\_\_ [1]

8. Write down the value of  $(13.64)^2$

- (a) exactly, Answer: \_\_\_\_\_ [1]
- (b) to one decimal place, Answer: \_\_\_\_\_ [1]
- (c) to two significant figures, Answer: \_\_\_\_\_ [1]
- (d) to the nearest hundred. Answer: \_\_\_\_\_ [1]

**9.** (a) Write the value of  $(12.35)^2$

(i) exactly,

Answer \_\_\_\_\_ [1]

(ii) to two decimal places.

Answer \_\_\_\_\_ [1]

(b) Round 6783

(i) to three significant figures,

Answer \_\_\_\_\_ [1]

(ii) to the nearest hundred.

Answer \_\_\_\_\_ [1]

**10.** Write the value of  $\sqrt{101.4049}$

(a) exactly,

Answer \_\_\_\_\_ [1]

(b) to one decimal place,

Answer \_\_\_\_\_ [1]

(c) to two significant figures,

Answer \_\_\_\_\_ [1]