



EXERCISE

BGCSE – Approximation

1. Write 956.97 correct to

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

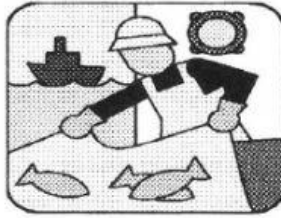
2. Write the number 0.0876 correct to

- (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]

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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]