Name:

Exam Style Questions

Significant Figures

Corbettmaths

Equipment needed: Calculator, pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 279a

Answers and Video Solutions

1. Write 236 correct to one significant figure.

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(1)

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2. Write 74.86 correct to 1 significant figure.

.....

(1)

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3. Write 6793 correct to one significant figure.

.....

(1)

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4. Write 24514 correct to one significant figure.

.....

(1)

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5. Write 3540 correct to 2 significant figures.

.....

(1)

6. Write 17635 correct to two significant figures.

.....

(1)

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7. (a) Write 506452 correct to two significant figures.

.....

(1)

(b) Write 506452 correct to three significant figures.

.....

(1)

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8. Write 0.0683 correct to 1 significant figure.

.....

(1)

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9. Write 0.1826 correct to 2 significant figures.

.....

(1)

10. (a) Round 41982 to one significant figure

.....

(1)

(b) Round 8812 to one significant figure

.....

(1)

(c) Round 0.0761 to one significant figure

.....

(1)

(d) Round 9.99 to one significant figure

.....

(1)

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11. (a) Round 254 to 2 significant figures

.....

(1)

(b) Round 75301 to 2 significant figures

.....

(1)

(c) Round 0.0001921 to 2 significant figures

.....

(1)

12. (a) Round 0.709 to one significant figure

.....

(1)

(b) Round 84472 to three significant figures

.....

(1)

(c) Round 12490 to two significant figures

.....

(1)

(d) Round 5607012 to three significant figures

.....

(1)

(e) Round 0.123456 to four significant figures

.....

(1)

(f) Round 0.961 to one significant figure

.....

(1)

(g) Round 1782739 to four significant figures

.....

(1)

13. At a concert, there were 7819 fans.
In a newspaper article, 7819 was rounded to one significant figure

(a) Write 7819 to one significant figure.

.....
(1)

At the concert there were 3871 programmes sold.
The retailer rounded this number to two significant figures.

(b) Write 3871 to two significant figures.

.....
(1)

14.

827.4715

Holly has worked out the answer to a calculation.

Her teacher has told her to write all her answers to four significant figures.

Round her answer to four significant figures

.....
(1)

15. Use your calculator to work out

$$5.8^2 + 7.2^3$$

(a) Write down the full calculator display

.....

(1)

(b) Write your answer to 1 significant figure

.....

(1)

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16. Calculate $\sqrt{62}$ correct to 2 significant figures.

.....

(2)

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17. Use your calculator to work out the value of

$$\frac{2.12 \times 5.2}{9.21 - 2.8}$$

Write down your answer to three significant figures.

.....

(3)

18. Calculate

$$\frac{8.9}{9.1 \times 2.8^4}$$

(a) Write down your full calculator display.

.....

(1)

(b) Write your answer to 1 significant figure.

.....

(1)

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19. Calculate

$$\frac{13.2 + 88.97}{2.6^3}$$

(a) Write down your full calculator display.

.....

(1)

(b) Write your answer to 2 significant figures.

.....

(1)

20.

$$\frac{183 + \sqrt{89}}{10.8 \times 992.75}$$

(a) Write down your full calculator display.

.....

(1)

(b) Write your answer to 4 significant figures.

.....

(1)

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21. (a) Work out $13^2 \div 0.2^3$

.....

(1)

(b) Give your answer to one significant figure.

.....

(1)

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22. In a box there are 300 sweets, correct to 1 significant figure.

(a) Write down the lowest possible number of sweets in the box.

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(1)

(b) Write down the greatest possible number of sweets in the box.

.....

(1)

23. The population of a city is 160000, correct to 3 significant figures.

(a) Write down the lowest possible population.

.....

(1)

(b) Write down the greatest possible population.

.....

(1)

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24. Round 5.791×10^5 to two significant figures.

Give your answer as an ordinary number.

.....

(2)

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25. Round 1.48×10^{-4} to one significant figure.

Give your answer as an ordinary number.

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(2)