Exam Style Questions

Significant Figures

Corbettmαths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

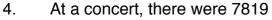Revision for this topic

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Video 279a

1. (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)

2. (a) Round 254 to two significant figures

....
(1)

(b) Round 75301 to two significant figures

....
(1)

(c) Round 0.0001921 to two significant figures

....
(1)

3. (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)

4.   At a concert, there were 7819
      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 caters rounded this number to two significant figures.

      (b) Write 3871 to two significant figures.

      ....
                                                                              (1)

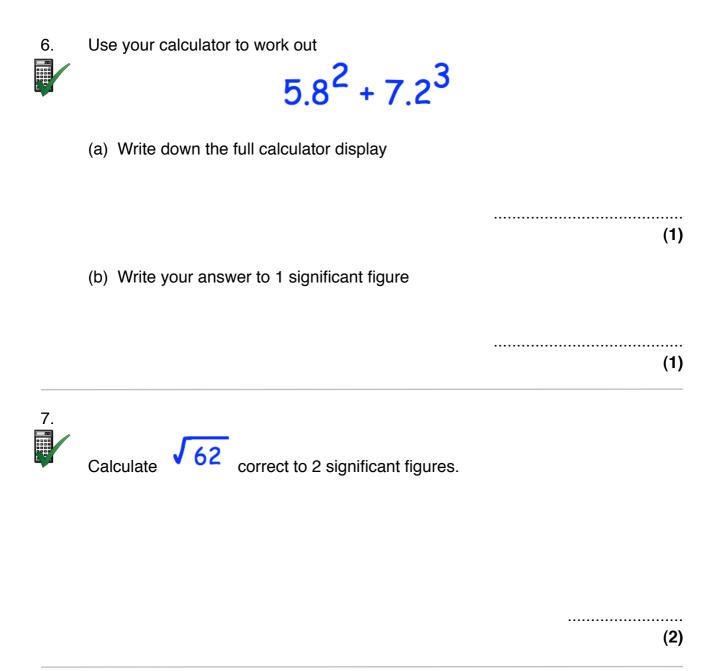
5.

      Holly has worked out the answer to a calculation.

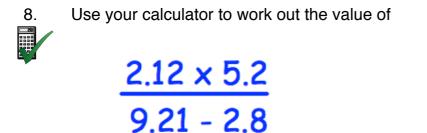   Her teacher has told her to write all her answers to four significant figures.

      Round her answer to four significant figures
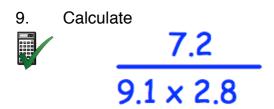
      ....
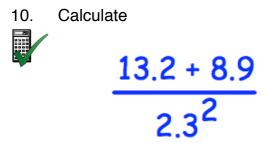   **(1)**

6. 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)

7.

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

....
(2)

8. 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)

9. Calculate

$$\frac{7.2}{9.1 \times 2.8}$$

(a) Write down your full calculator display.

....
(1)

(b) Write your answer to 1 significant figure.

....
(1)

10. Calculate

$$\frac{13.2 + 8.9}{2.3^2}$$

(a) Write down your full calculator display.

....
(1)

(b) Write your answer to 2 significant figures.

....
(1)

11.

$$\frac{183 + 892}{10.4 \times 8.75}$$

   (a) Write down your full calculator display.

   ....
   (1)

   (b) Write your answer to 3 significant figures.

   ....
   (1)

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12. Work out $13 \div 0.3^2$

   (a) Write down your full calculator display.

   ....
   (1)

   (b) Give your answer to one significant figure.

   ....
   (1)