

Examples

Workout



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Question 1: Calculate each of the following

- (a)  $28^2$       (b)  $11^3$       (c)  $9^4$       (d)  $3^6$       (e)  $15^8$   
 (f)  $16^0$       (g)  $2^{13}$       (h)  $(-5)^2$       (i)  $(-22)^3$       (j)  $(-95)^2$

Question 2: Calculate each of the following

- (a)  $\sqrt{576}$       (b)  $\sqrt{1089}$       (c)  $\sqrt{218089}$       (d)  $\sqrt[3]{1000000}$       (e)  $\sqrt[3]{9261}$   
 (f)  $\sqrt[4]{81}$       (g)  $\sqrt[4]{65536}$       (h)  $\sqrt[7]{78125}$       (i)  $\sqrt[10]{1024}$

Question 3: Use your calculator to work out the value of each of the following.  
Give your answers to 3 decimal places

- (a)  $\sqrt{45} + 3.5^3$       (b)  $\sqrt[3]{6} + 1.2^2$       (c)  $(30.4 - 1.67)^2$   
 (d)  $\sqrt{7.6^2 + 5^2}$       (e)  $\sqrt[3]{9^2 - 1.8^3}$       (f)  $\sqrt[3]{(25.4 - 5.9)^2}$

Question 4: Use your calculator to work out the value of each of the following.  
Give your answers to 5 decimal places

- (a)  $\frac{3.5}{1.4 + 3.8}$       (b)  $\frac{7.8 \times 5.3}{11.7}$       (c)  $\frac{29.82 - 4.099}{50.3 + 6.11}$   
 (d)  $\frac{0.18 + 0.175}{2.4 \times 1.9}$       (e)  $\frac{0.495}{0.091} \times 604.6$       (f)  $15 - \frac{3.7 \times 2}{4.8}$   
 (g)  $\frac{5.92}{9.11} + \frac{7.34}{2.89}$       (h)  $3\frac{1}{7} \times 2\frac{9}{10}$       (i)  $5.23 \times \left(\frac{1.23}{0.07} + \frac{3}{4}\right)$

Question 5: Use a calculator to work out each of the following  
Write down all the figures on your calculator display

(a)  $\frac{2240}{5.3^2 - 9.4}$

(b)  $\sqrt{\frac{14.67}{0.113}}$

(c)  $\sqrt[3]{\frac{81.81 + 29.9}{3.08 - 0.775}}$

(d)  $\frac{18.2 + 7.4}{\sqrt{9.22}}$

(e)  $\frac{\sqrt{17.8 - 9.93}}{1.25 - 5.9}$

(f)  $\frac{\sqrt{39.75 + 24.44}}{0.55 \times \sqrt[3]{1.2 \times 1.9}}$

Question 6: Round the answers to question 5 to one significant figure

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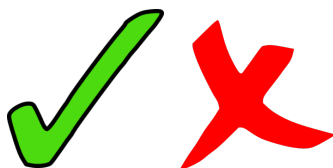
Question 1: Jamie is trying to use his calculator to work out  $(-29)^2$   
His answer is  $-841$   
Explain his mistake.

Question 2: Hannah thinks the answer to  $3.25 - 1.25^2$  should be 4 because  
 $3.25 - 1.25 = 2$  and then  $2^2 = 4$   
Explain why the answer on her calculator is 1.6875

Question 3: Simon has calculated the answer to  $\frac{7.68 - 6.2}{4.51 + 1.33}$  is  $\frac{21}{73}$

Explain how Simon can change this answer to a decimal

Answers



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